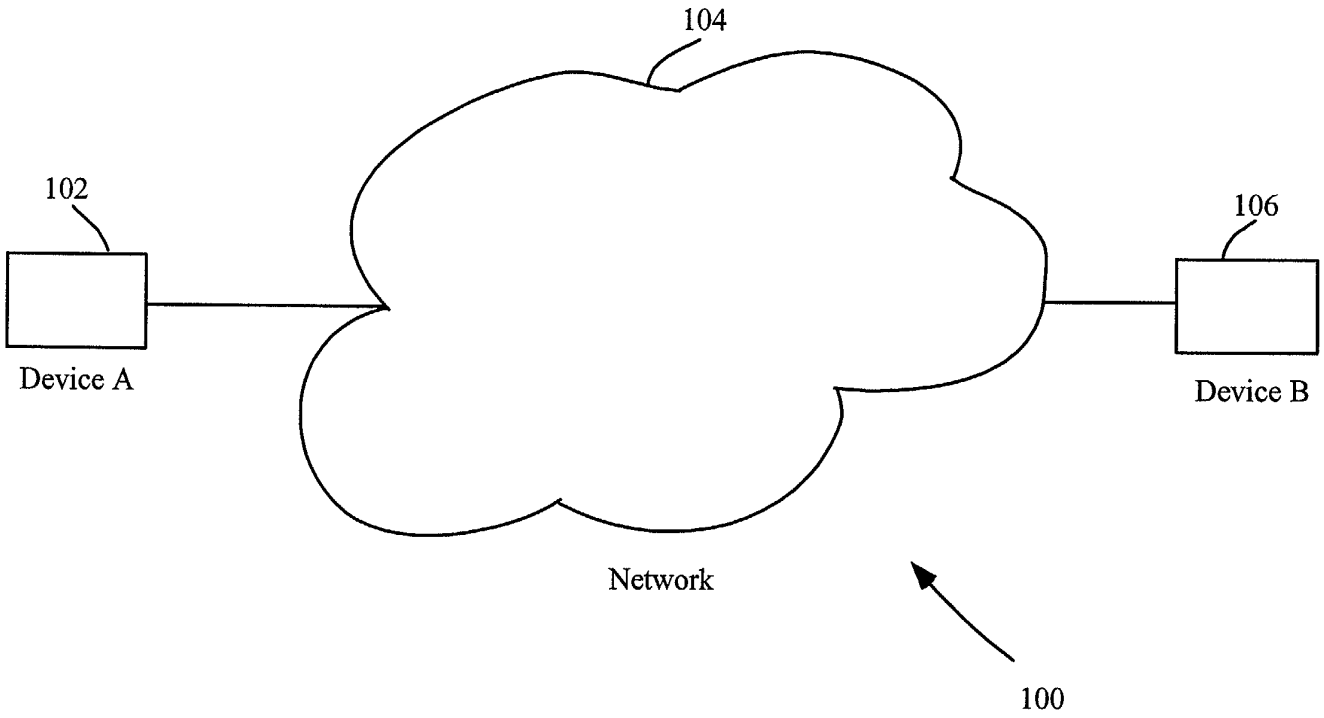


Fig. 1

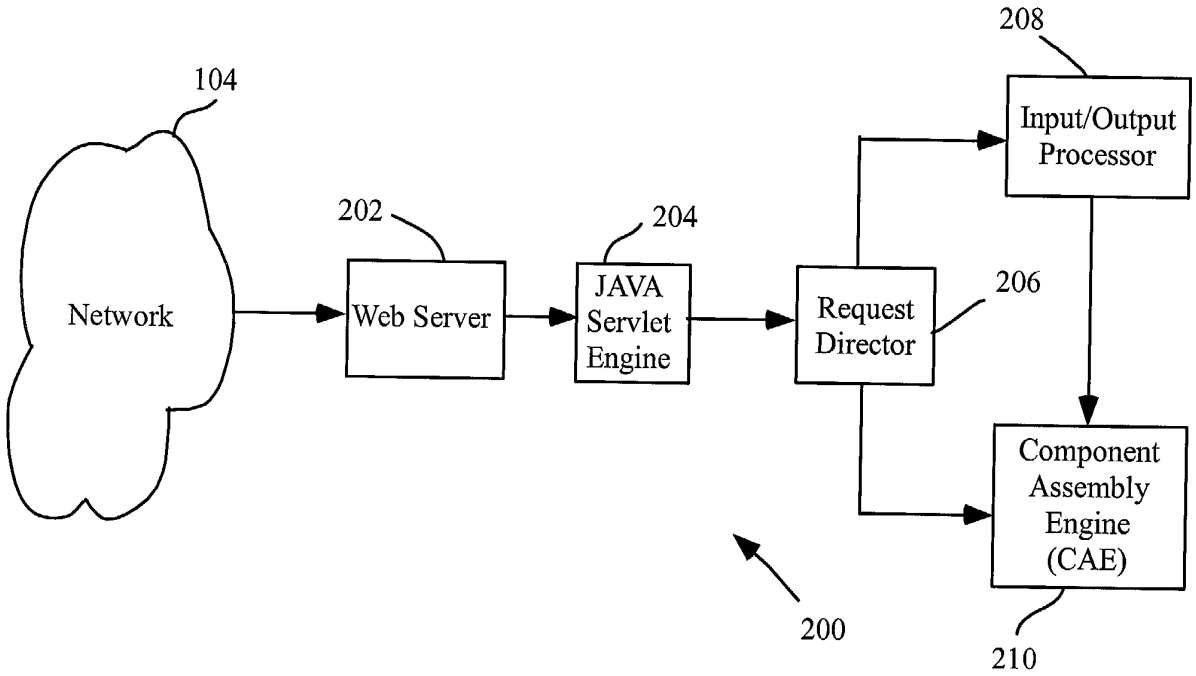

104
Network
202
Web Server
204
JAVA
Servlet
Engine
Request
Director
206
208
Input/Output
Processor
Component
Assembly
Engine
(CAE)
210
200

Fig. 2

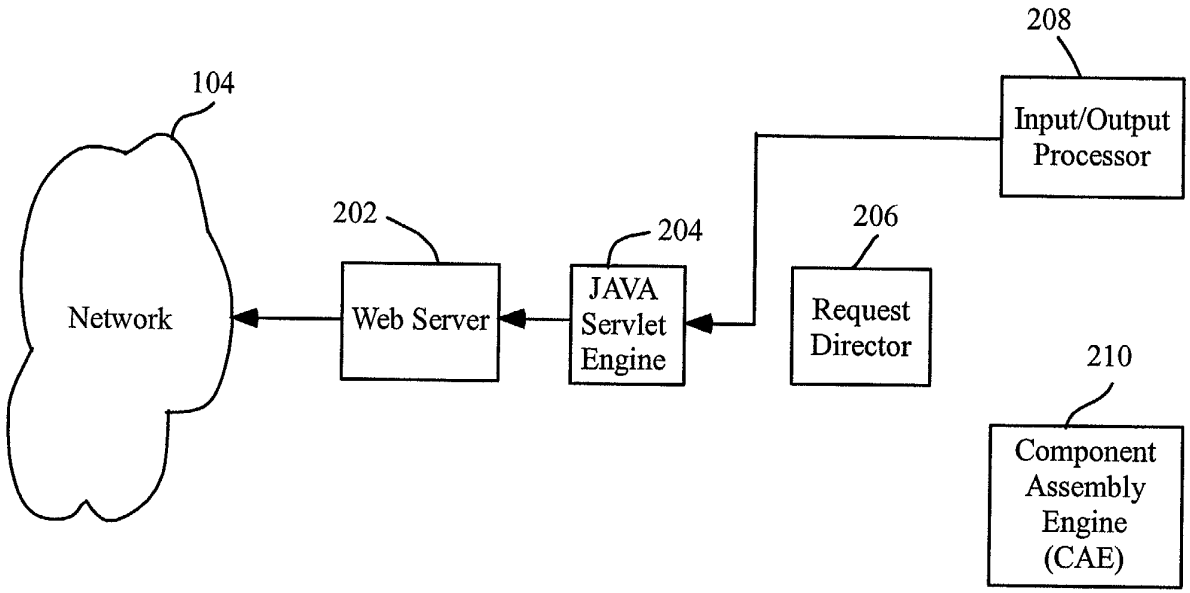

208
Input/Output Processor
104
Network
202
Web Server
204
JAVA Servlet Engine
206
Request Director
210
Component Assembly Engine (CAE)

Fig. 3

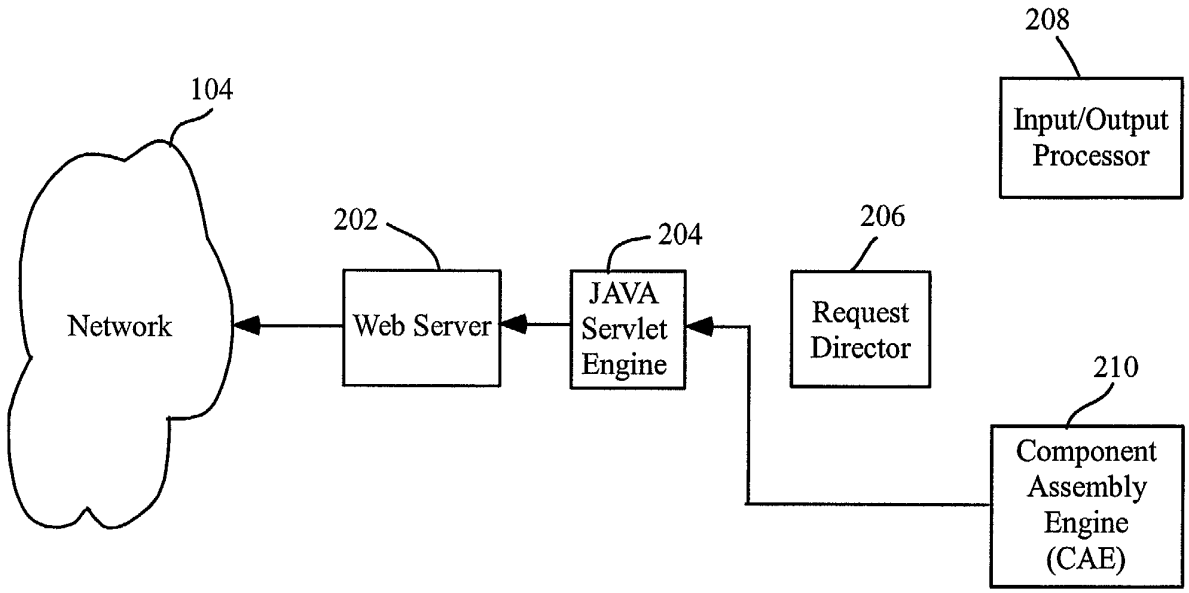

208
Input/Output Processor
104
Network
202
Web Server
204
JAVA Servlet Engine
206
Request Director
210
Component Assembly Engine (CAE)

Fig. 4

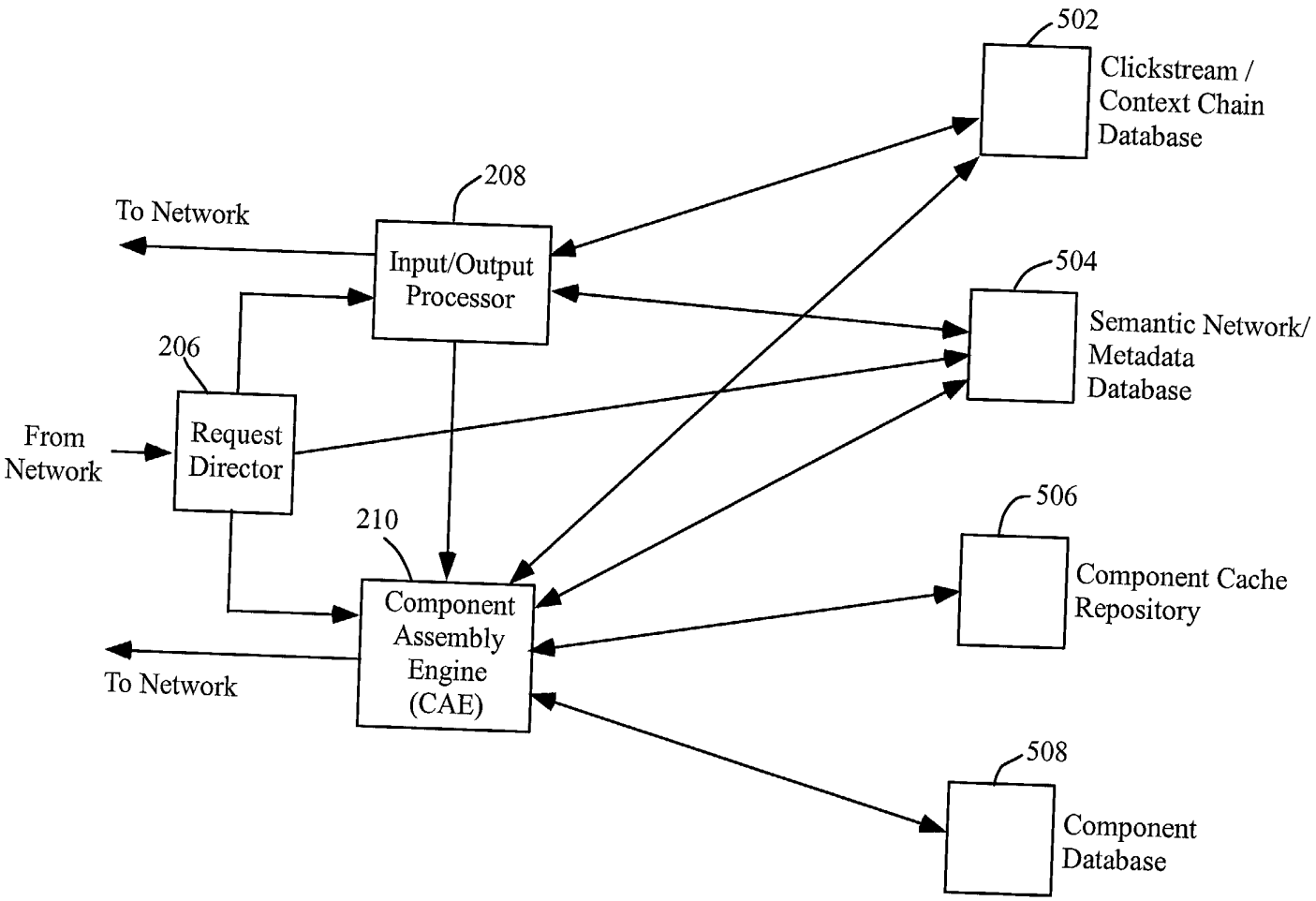

502
Clickstream / Context Chain Database
208
To Network
Input/Output Processor
504
Semantic Network/ Metadata Database
206
From Network
Request Director
210
506
Component Cache Repository
Component Assembly Engine (CAE)
To Network
508
Component Database

Fig. 5

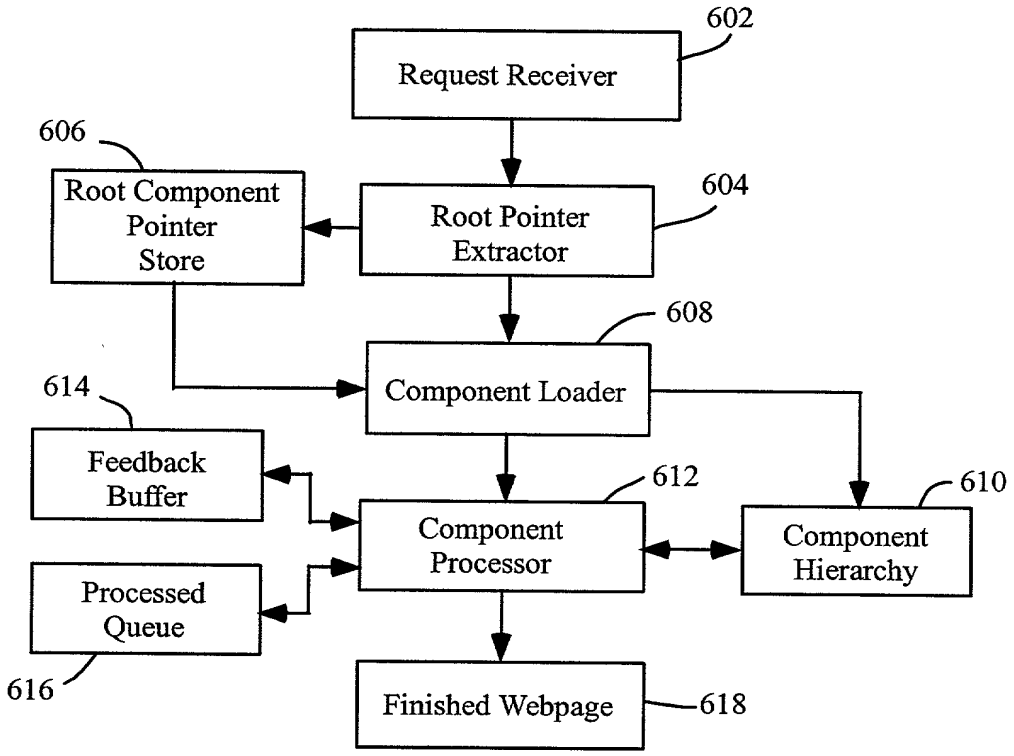

602
Request Receiver
606
Root Component Pointer Store
604
Root Pointer Extractor
608
Component Loader
614
Feedback Buffer
612
610
Component Processor
Component Hierarchy
Processed Queue
616
Finished Webpage
618

Fig. 6

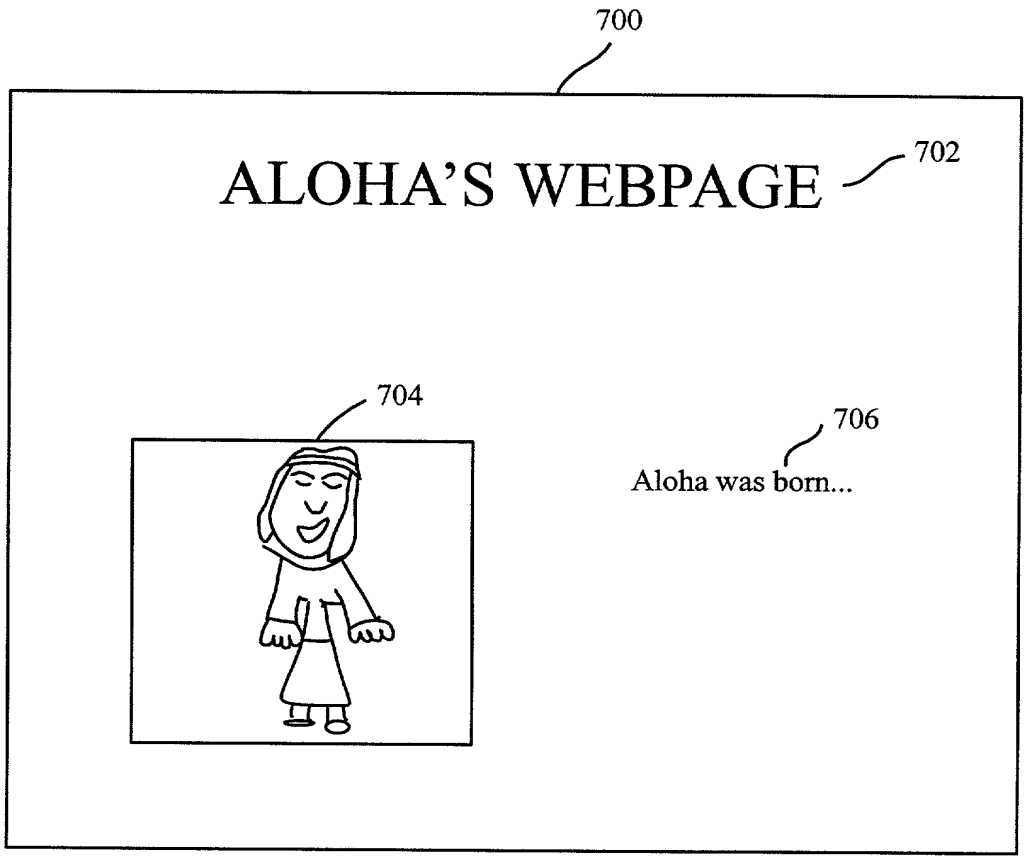


Fig. 7

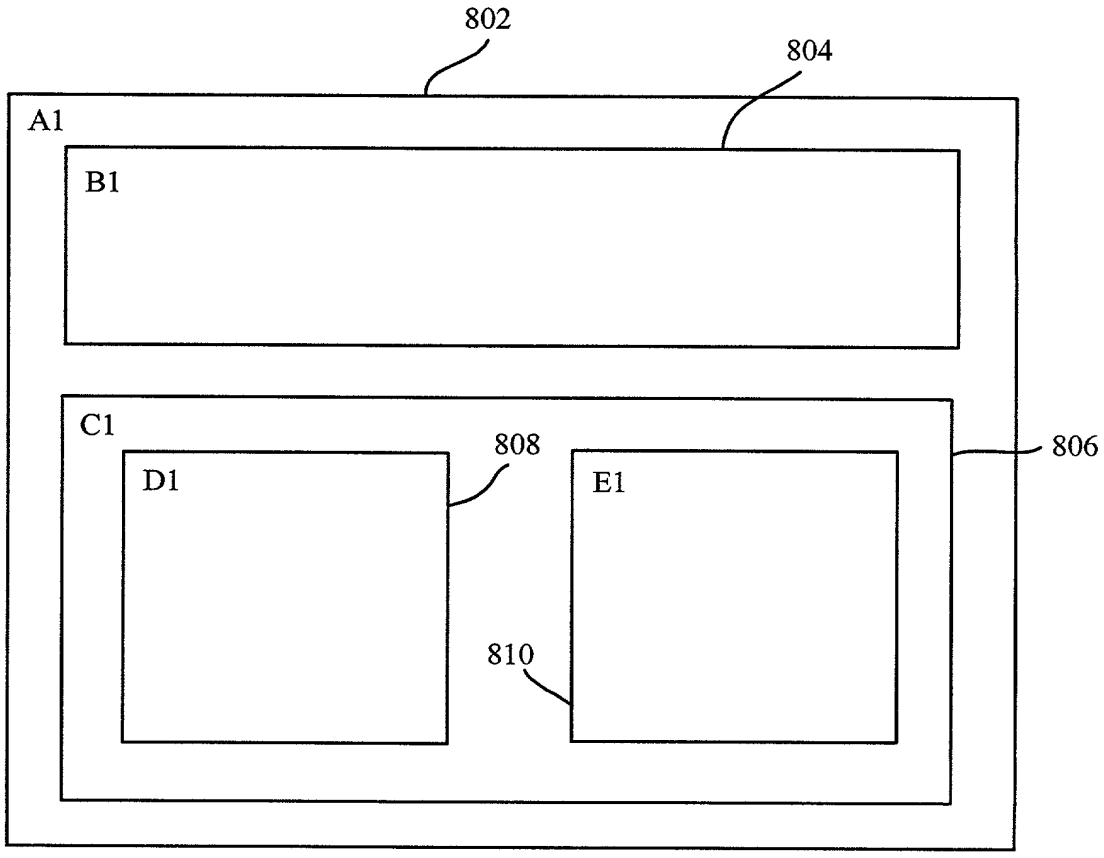


Fig. 8

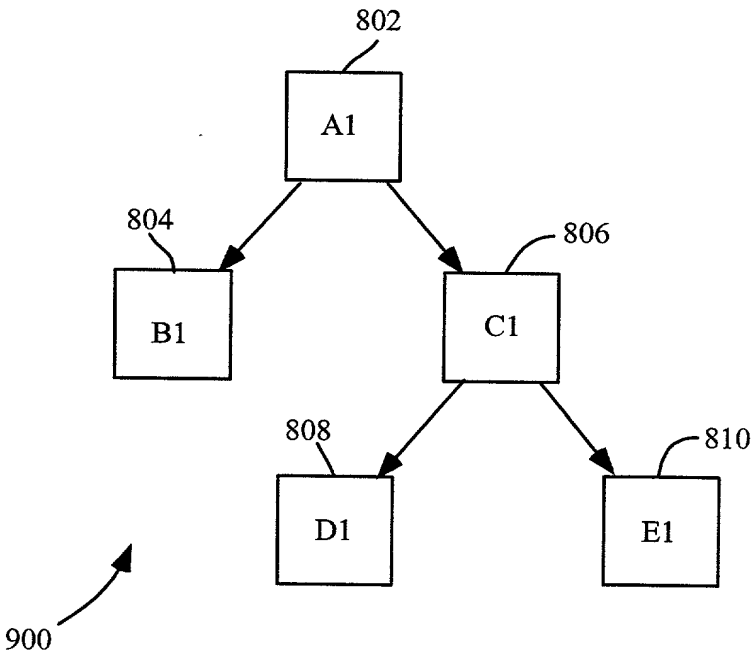


Fig. 9

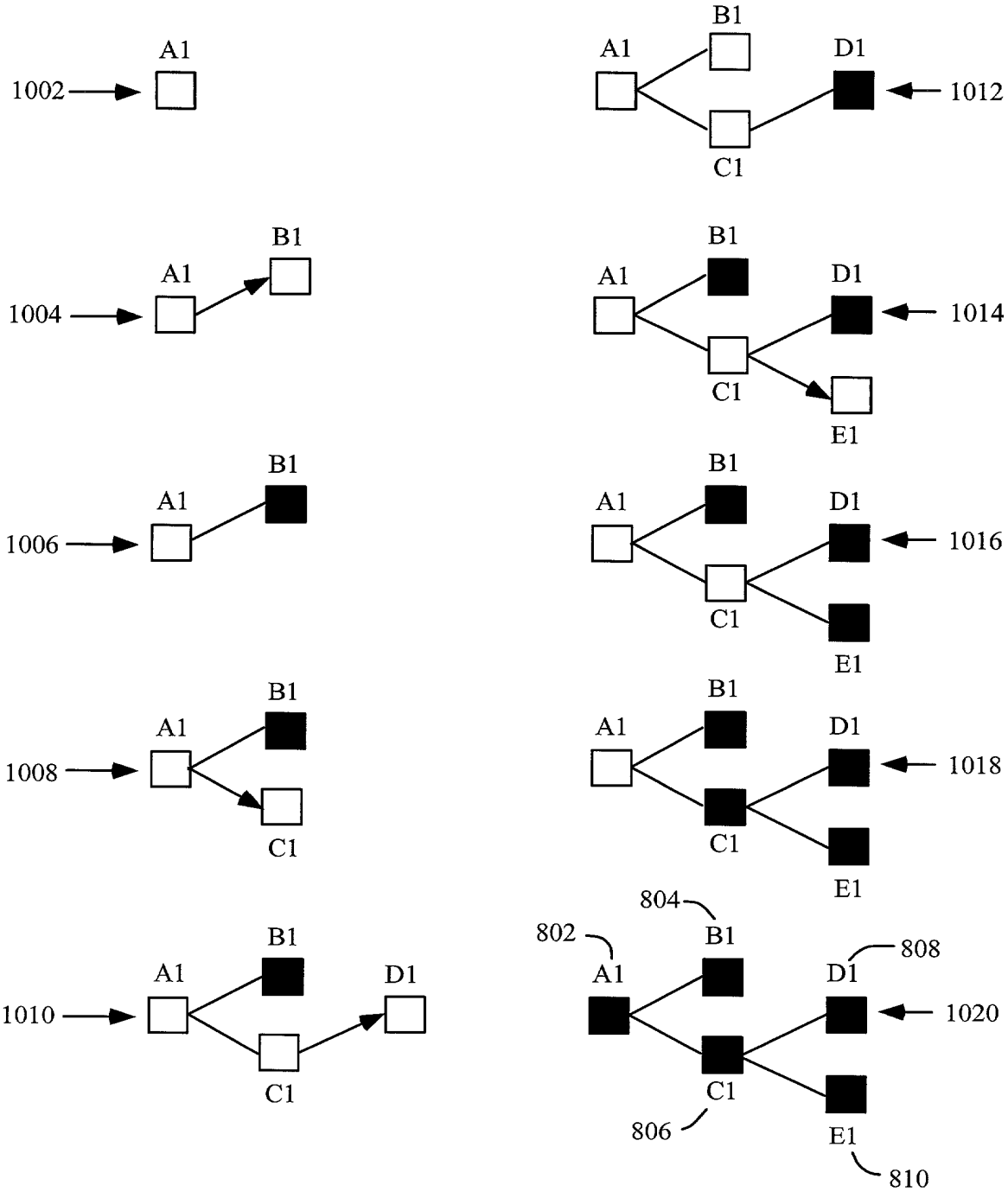

A1
1002
B1
A1
1004
B1
A1
1006
B1
A1
1008
C1
B1
A1
D1
1010
C1
B1
A1
D1
1012
C1
B1
A1
D1
1014
C1
E1
B1
A1
D1
1016
C1
E1
B1
A1
D1
1018
C1
E1
804
802
B1
808
A1
D1
1020
C1
806
E1
810

Fig. 10

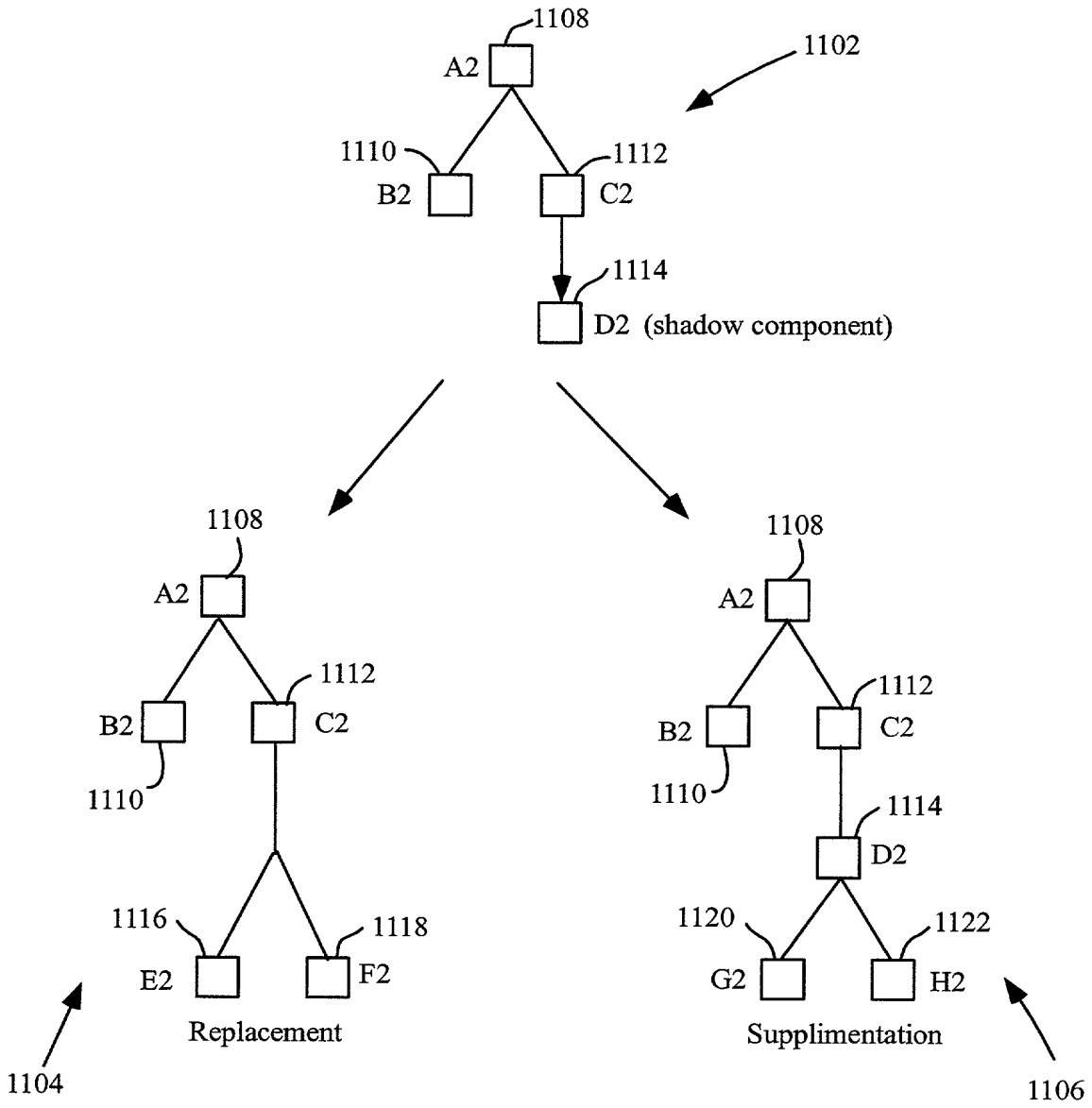

1108
A2
1102
1110
B2
1112
C2
1114
D2 (shadow component)
1108
A2
1112
B2
C2
1110
1116
1118
E2
F2
Replacement
1104
1108
A2
1112
B2
C2
1110
1114
D2
1120
1122
G2
H2
Supplimentation
1106

Fig. 11

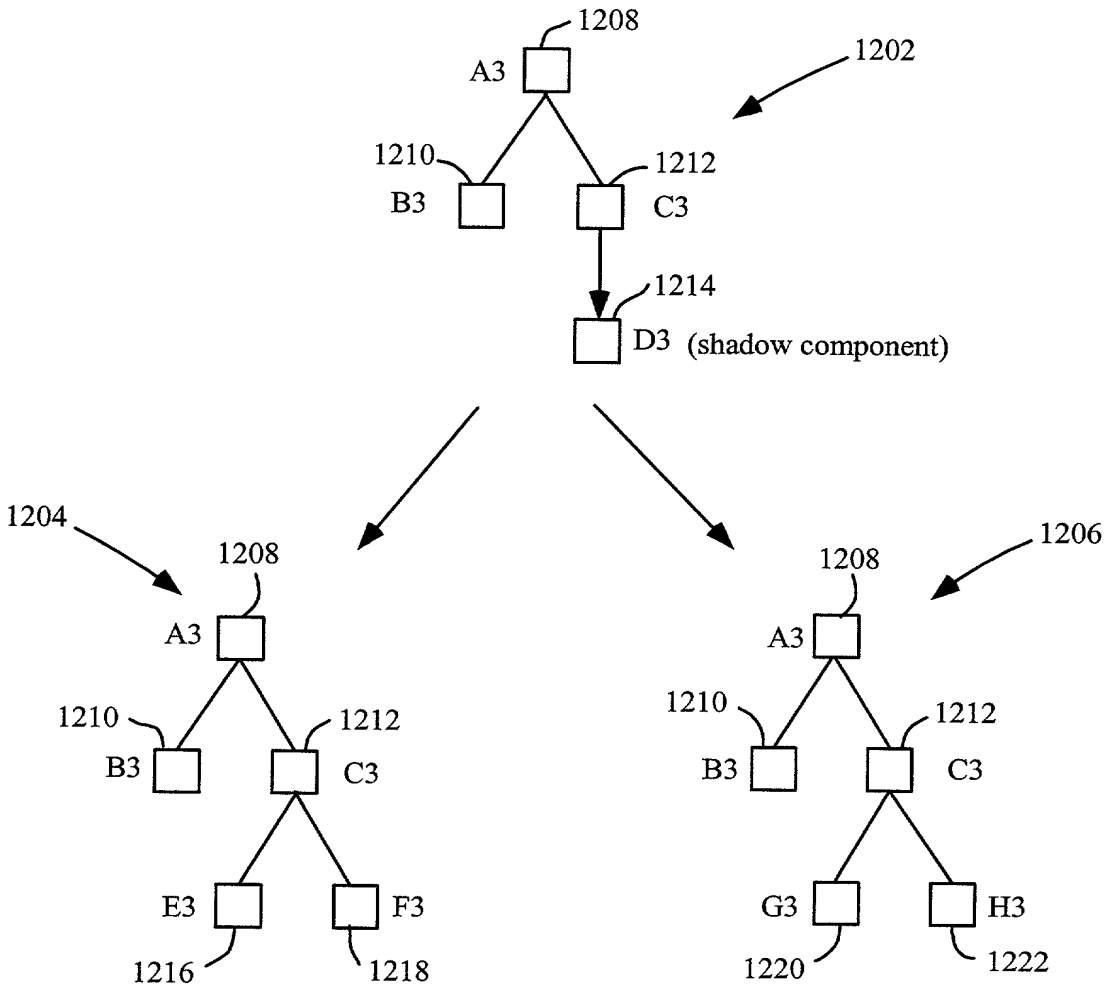

1208
A3
1202
1210
B3
1212
C3
1214
D3 (shadow component)
1204
1208
A3
1210
B3
1212
C3
E3
F3
1216
1218
1206
1208
A3
1210
B3
1212
C3
G3
H3
1220
1222

Fig. 12

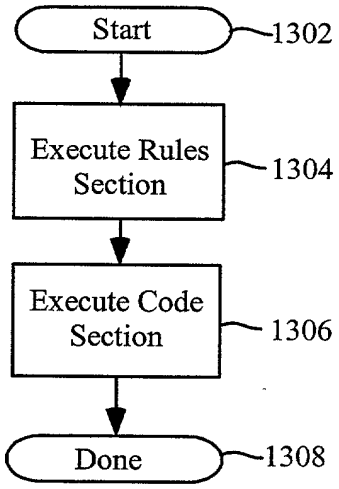

Start
1302
Execute Rules Section
1304
Execute Code Section
1306
Done
1308

Fig. 13

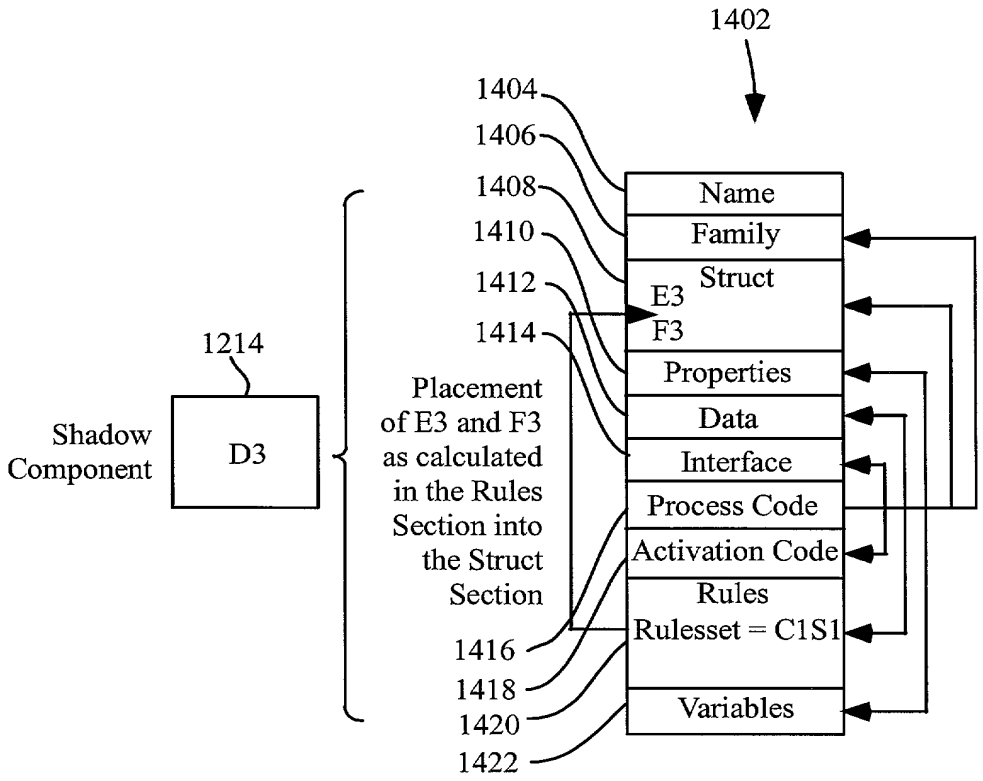

1402
1404
1406
1408
1410
1412
1414
1214
Shadow Component
D3
Placement of E3 and F3 as calculated in the Rules Section into the Struct Section
Name
Family
Struct
E3
F3
Properties
Data
Interface
Process Code
Activation Code
Rules
Rulesset = C1S1
Variables
1416
1418
1420
1422
1424
Rulesset C1S1
if Condition X is true, then enter E3 and F3 into Struct section
If Condition Y is true, then enter G3 and H3 into Struct section

Fig. 14

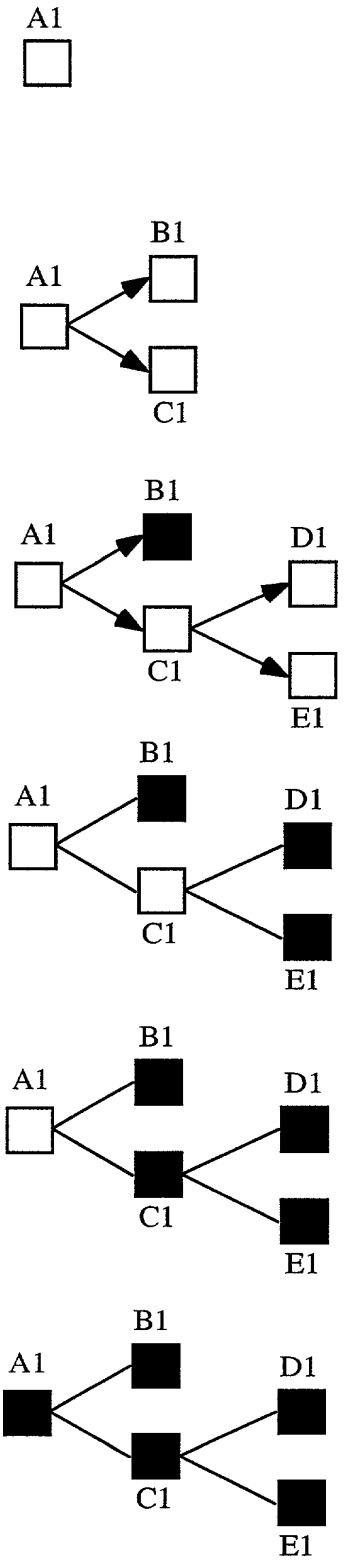


Fig. 15

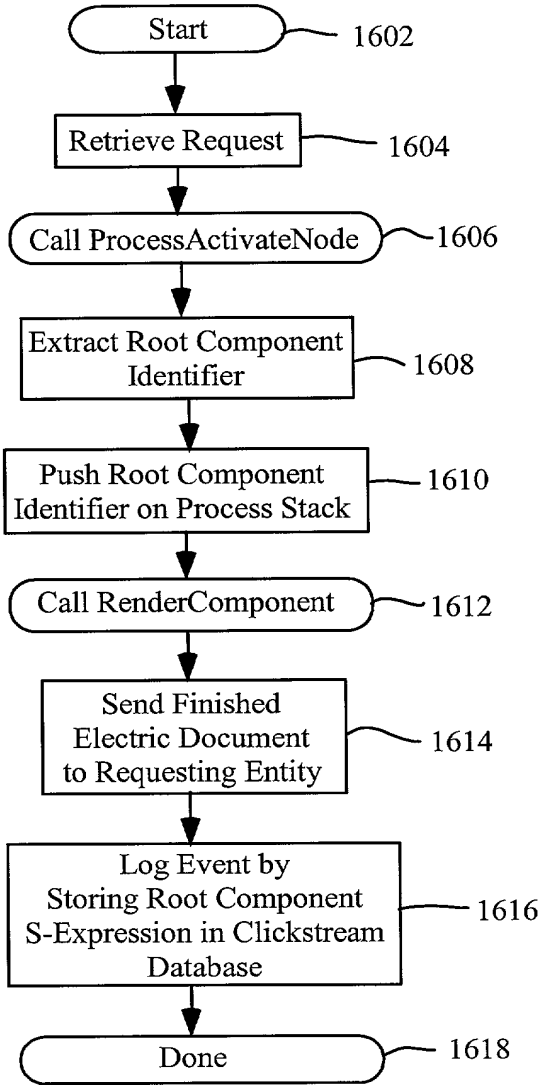

Start
1602
Retrieve Request
1604
Call ProcessActivateNode
1606
Extract Root Component Identifier
1608
Push Root Component Identifier on Process Stack
1610
Call RenderComponent
1612
Send Finished Electric Document to Requesting Entity
1614
Log Event by Storing Root Component S-Expression in Clickstream Database
1616
Done
1618

Fig. 16

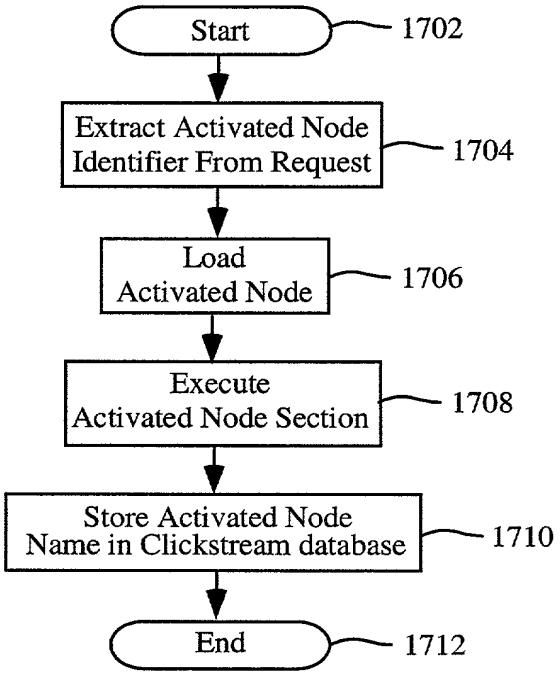

Start
1702
Extract Activated Node Identifier From Request
1704
Load Activated Node
1706
Execute Activated Node Section
1708
Store Activated Node Name in Clickstream database
1710
End
1712

Fig. 17

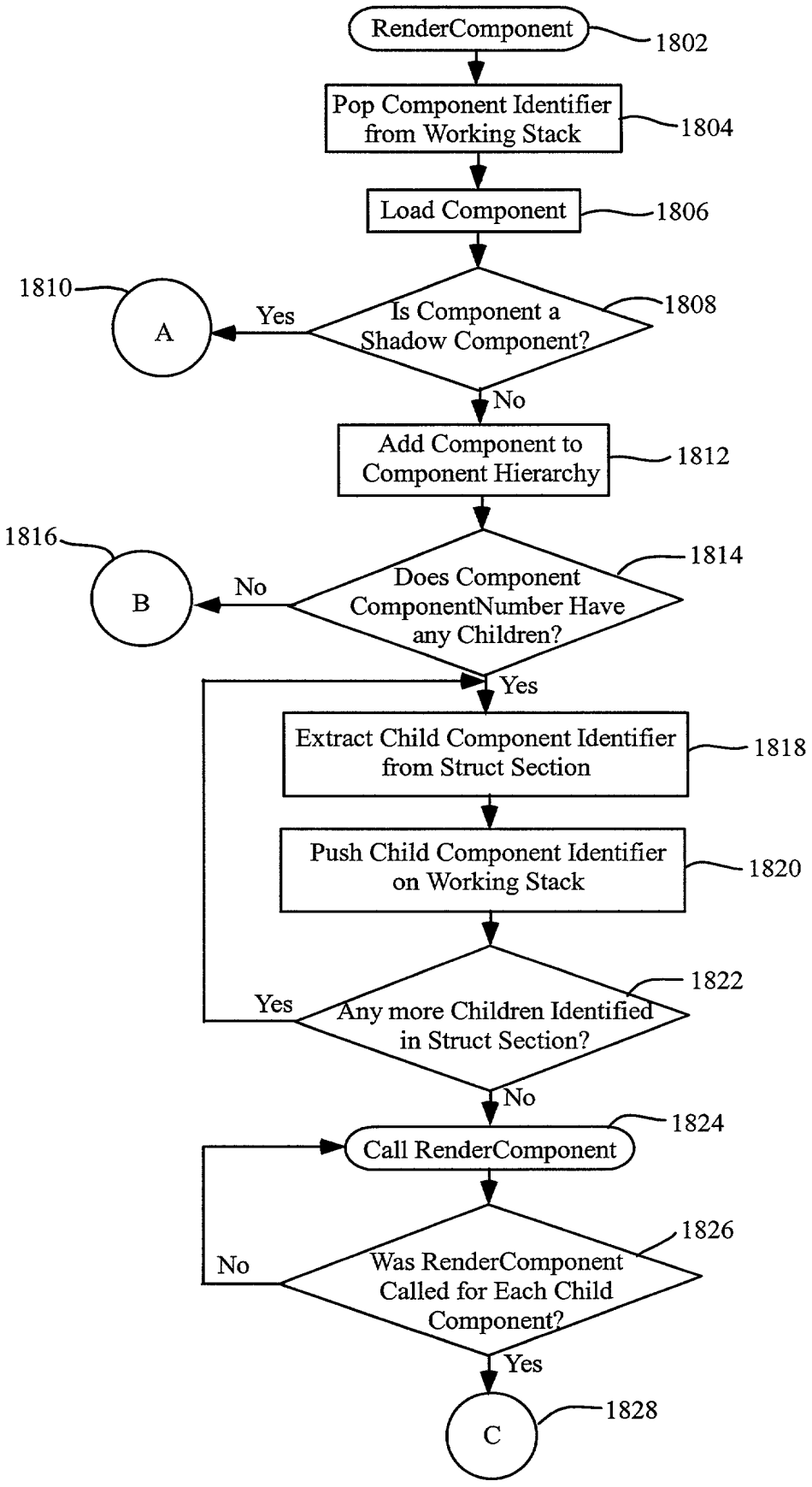

RenderComponent
1802
Pop Component Identifier from Working Stack
1804
Load Component
1806
1810
A
Yes
Is Component a Shadow Component?
1808
No
Add Component to Component Hierarchy
1812
1816
B
No
Does Component ComponentNumber Have any Children?
1814
Yes
Extract Child Component Identifier from Struct Section
1818
Push Child Component Identifier on Working Stack
1820
Yes
Any more Children Identified in Struct Section?
1822
No
Call RenderComponent
1824
No
Was RenderComponent Called for Each Child Component?
1826
Yes
C
1828

Fig. 18

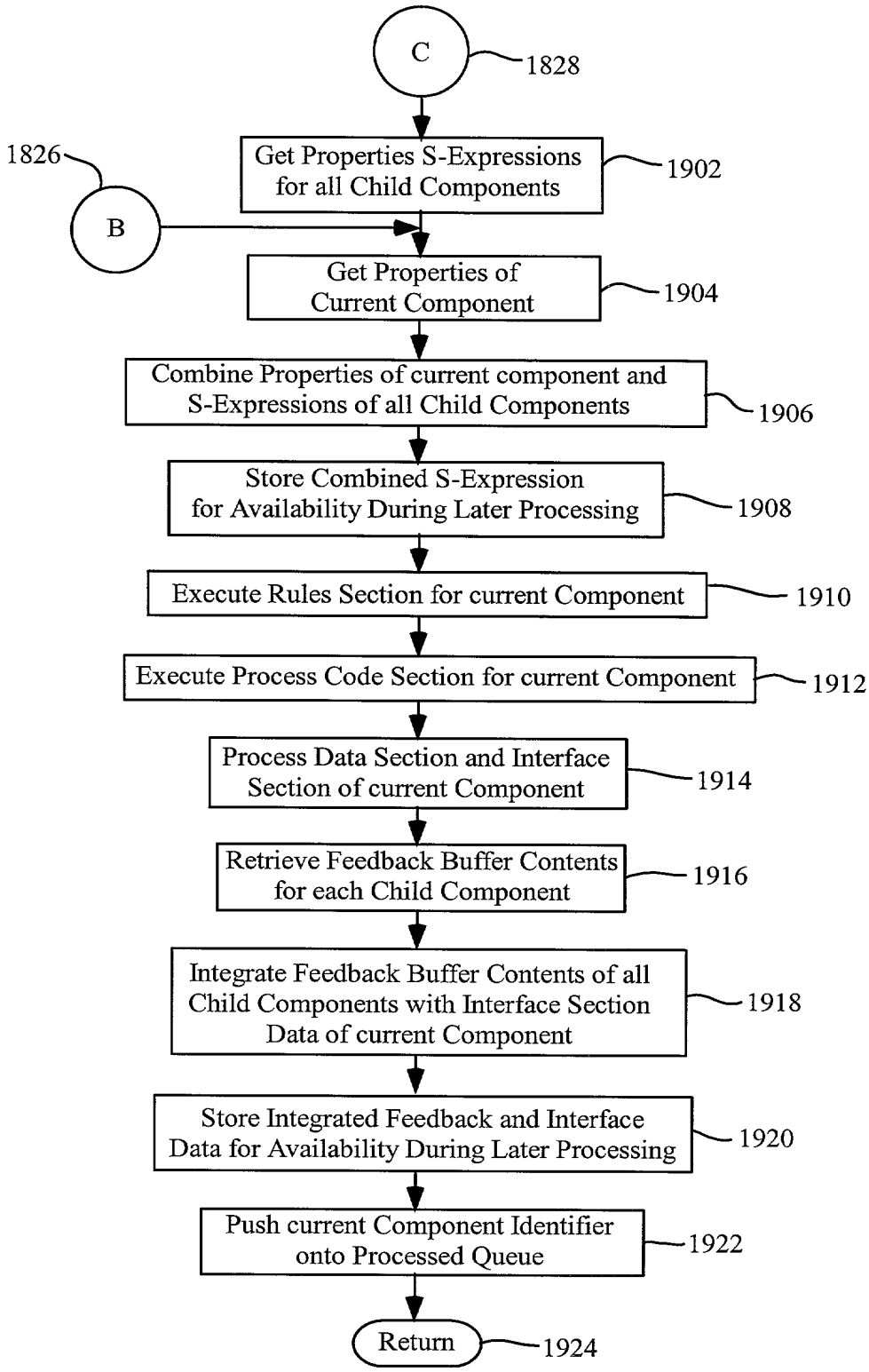

C
1828
1826
B
Get Properties S-Expressions for all Child Components
1902
Get Properties of Current Component
1904
Combine Properties of current component and S-Expressions of all Child Components
1906
Store Combined S-Expression for Availability During Later Processing
1908
Execute Rules Section for current Component
1910
Execute Process Code Section for current Component
1912
Process Data Section and Interface Section of current Component
1914
Retrieve Feedback Buffer Contents for each Child Component
1916
Integrate Feedback Buffer Contents of all Child Components with Interface Section Data of current Component
1918
Store Integrated Feedback and Interface Data for Availability During Later Processing
1920
Push current Component Identifier onto Processed Queue
1922
Return
1924

Fig. 19

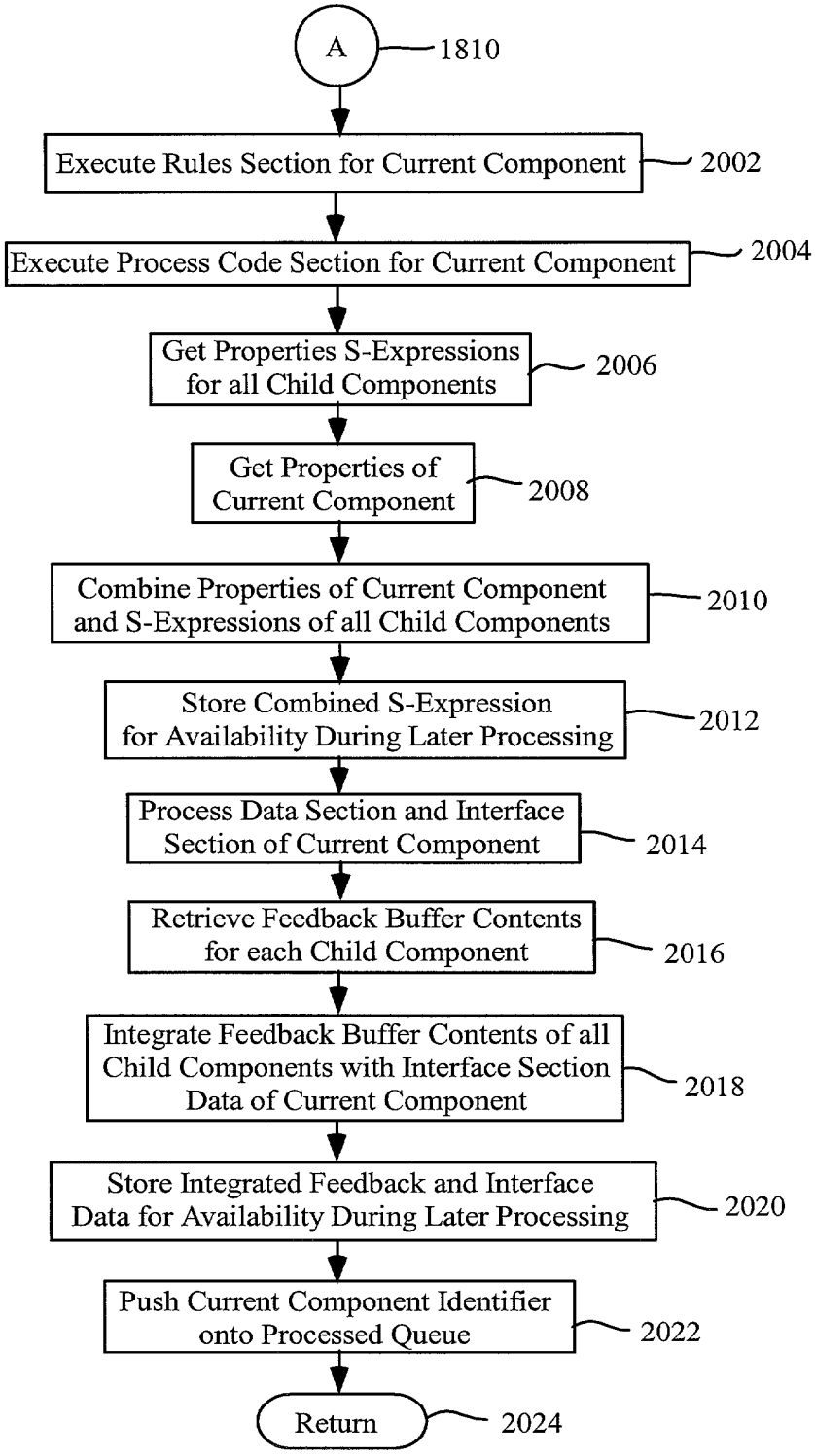

A
1810
Execute Rules Section for Current Component
2002
Execute Process Code Section for Current Component
2004
Get Properties S-Expressions for all Child Components
2006
Get Properties of Current Component
2008
Combine Properties of Current Component and S-Expressions of all Child Components
2010
Store Combined S-Expression for Availability During Later Processing
2012
Process Data Section and Interface Section of Current Component
2014
Retrieve Feedback Buffer Contents for each Child Component
2016
Integrate Feedback Buffer Contents of all Child Components with Interface Section Data of Current Component
2018
Store Integrated Feedback and Interface Data for Availability During Later Processing
2020
Push Current Component Identifier onto Processed Queue
2022
Return
2024

Fig. 20

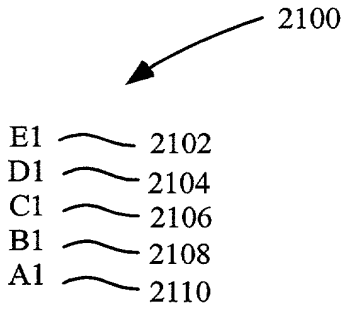


Fig. 21

```
<HTML>
<BODY>
<CENTER><H1>ALOHA'S WEBPAGE</H1></CENTER>          2206
<TABLE>
<TBODY>
<TR>
<TD>
<IMG SRC="aha.html"></IMG>                        2216
</TD>
<TD>
Aloha was born ...                                2222
</TD>
</TR>
</TBODY>
</TABLE>
</BODY>                                           2200
</HTML>
```

Fig. 22

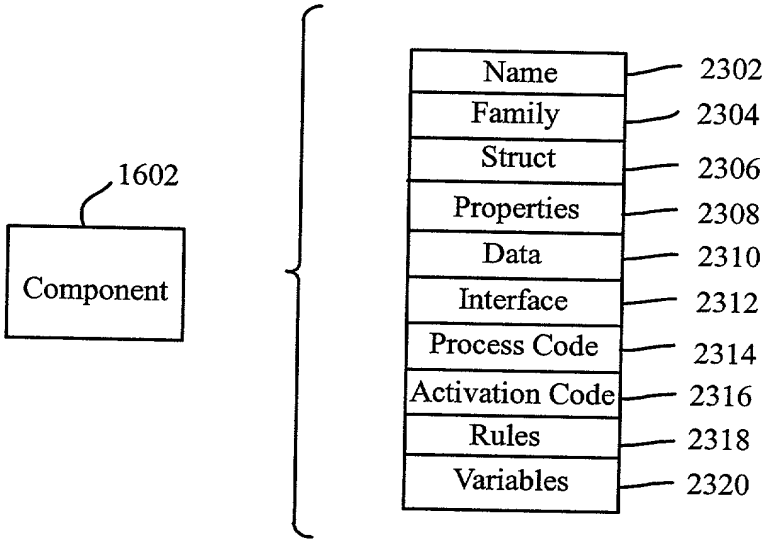

1602
Component
Name
Family
Struct
Properties
Data
Interface
Process Code
Activation Code
Rules
Variables
2302
2304
2306
2308
2310
2312
2314
2316
2318
2320

Fig. 23

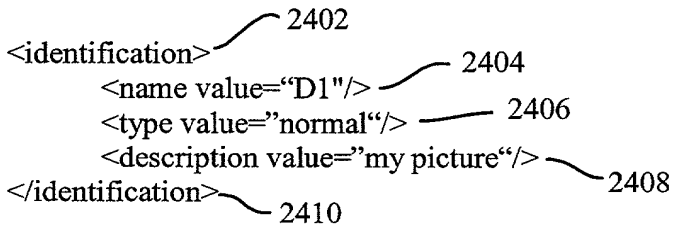

<identification>
2402
<name value="D1"/>
2404
<type value="normal"/>
2406
<description value="my picture"/>
2408
</identification>
2410

Fig. 24

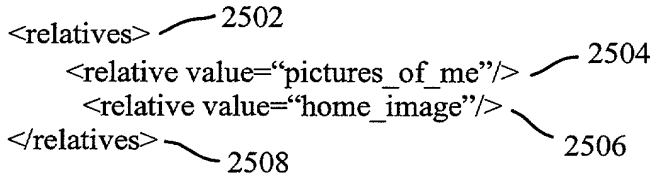

<relatives>
2502
<relative value="pictures_of_me"/>
2504
<relative value="home_image"/>
2506
</relatives>
2508

Fig. 25

20050234926 A1 20051020

<struct> 2602
<reference value="D1"/> 2604
<reference value="E1"/> 2606
<reference value="this"/> 2608
</struct> 2610

Fig. 26

<properties> 2702
<property name="pizza" value= 1.0"/> 2704
<property name="hot food" value="1.0"/> 2706
</properties> 2708

Fig. 27

20030204 *22823567

```
<data type="xml">                                                    2802
    <![CDATA[                                                        2804
    <templateData>                                                   2806
        <data_element>                                               2808
            <person>                                                 2810
                <name>Llewellyn Wall</name>                          2812
                <num>5</num>                                         2814
            </person>                                                2816
        </data_element>                                              2818
    </templateData>                                                  2820
]]>                                                                  2822
</data>                                                              2824
```

Fig. 28

```
<interface type="image/gif">                                         2902
    <![CDATA[R01GOD1hAQABAID/AMDAwAAAACH5BA                          2904
        EAAAAALAAAAAABAAEAAAICRAEAOw=]]>
</interface>                                                         2906

<interface type="text/html">                                         2908
    <![CDATA[Hello web user!]]>                                      2910
</interface>                                                         2912
```

Fig. 29

```
<code language="JavaScript">                                    3002
        <![CDATA[                                               3004
        // @API                                                 3006
        var fileArr = API.getFileListing("w","xml");            3008
        var i;                                                  3010
        var newStr =""                                          3012
        if (fileArr !=null) {                                   3014
                for (i=0; i<fileArr.length; i++) {              3016
                        newStr += fileArr[i] + "<br>" ;         3018
                }                                               3020
        } 3022
        newStr +="[DONE]";                                      3024
        API.setComponentInterface(cID, "text/html",newStr);     3024
        ]]>                                                     3026
</code>                                                         3028
```

Fig. 30

```
<activationcode language="JavaScript">                          3102
        <![CDATA[The user has selected component D1!]]>         3104
</activationcode>                                               3106
```

Fig. 31

```
<rulesset>  3202
        <name value="oriental_food_preferences_rulesset"/>  3204
</rulesset>  3206
```

Fig. 32

```
<variables>  3302
    <variable name ="userid" value="bezuwork100">  3304
     <variable name="last_visit_datetime" value="0101232048">  3306
     <variable name="this_visit_datetime" value="0106201613">  3308
</variables>  3310
```

Fig. 33

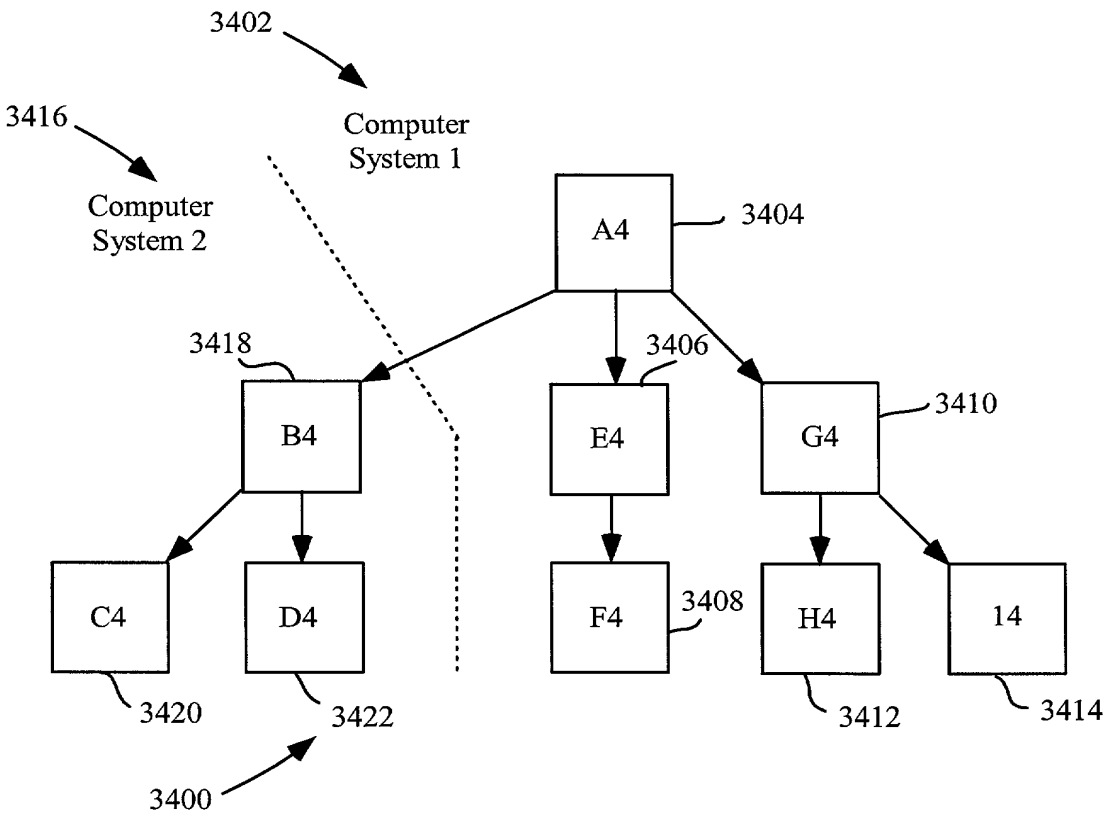

3402
Computer System 1
3416
Computer System 2
A4
3404
3418
3406
B4
E4
G4
3410
C4
D4
F4
3408
H4
14
3420
3422
3412
3414
3400

Fig. 34

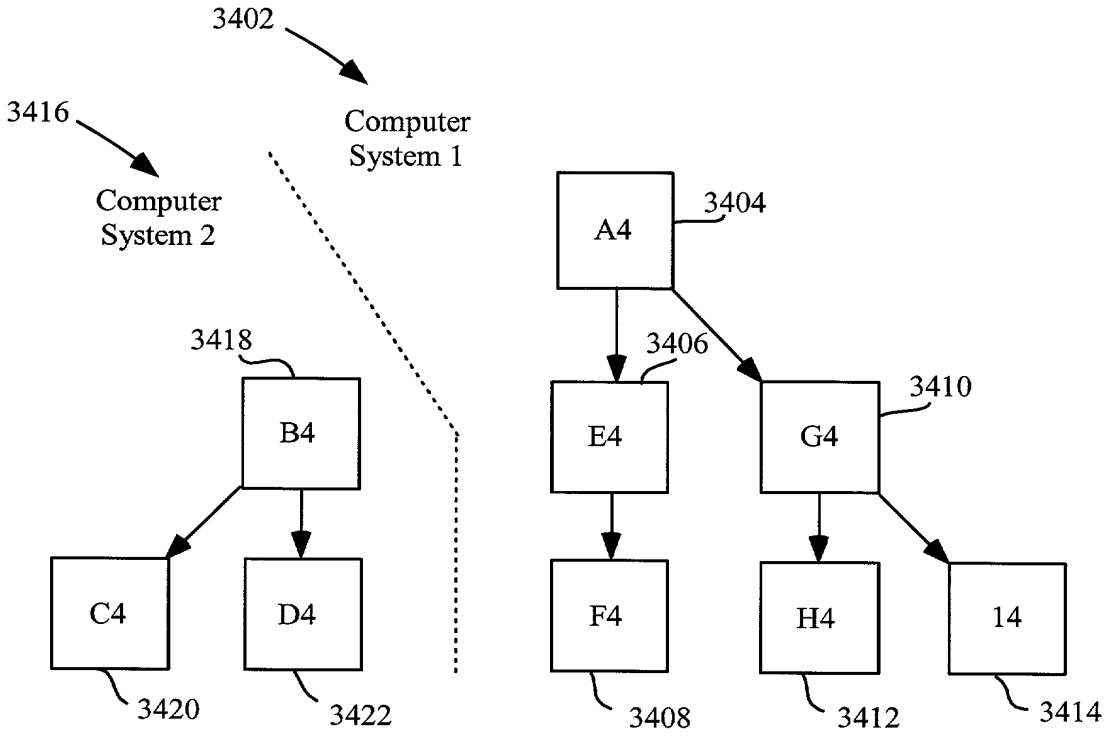

3402
Computer System 1
3416
Computer System 2
A4
3404
3406
E4
G4
3410
F4
H4
14
3408
3412
3414
3418
B4
C4
D4
3420
3422

Fig. 35

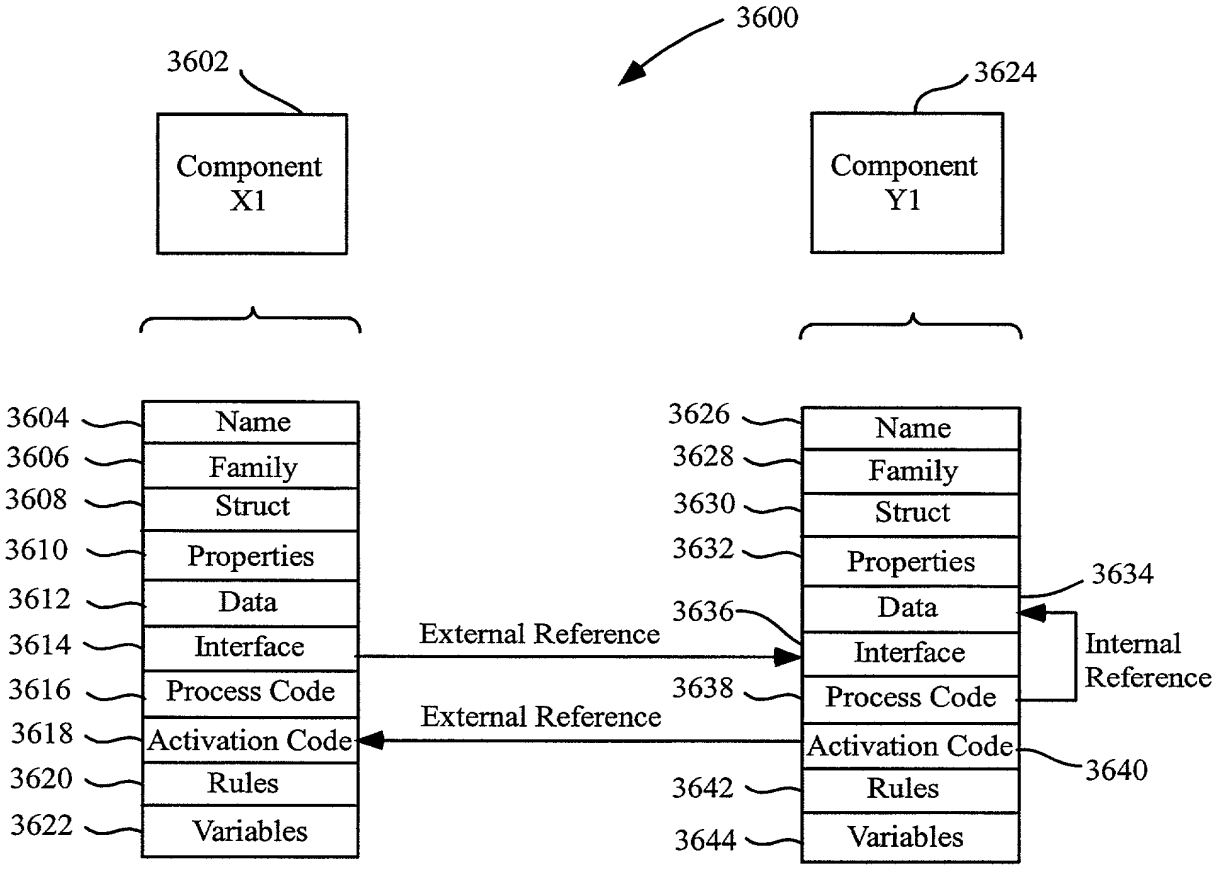

3600
3602
Component X1
3624
Component Y1
3604
Name
3606
Family
3608
Struct
3610
Properties
3612
Data
3614
Interface
3616
Process Code
3618
Activation Code
3620
Rules
3622
Variables
External Reference
External Reference
3626
Name
3628
Family
3630
Struct
3632
Properties
3634
Data
3636
Interface
3638
Process Code
Activation Code
3640
3642
Rules
3644
Variables
Internal Reference

Fig. 36

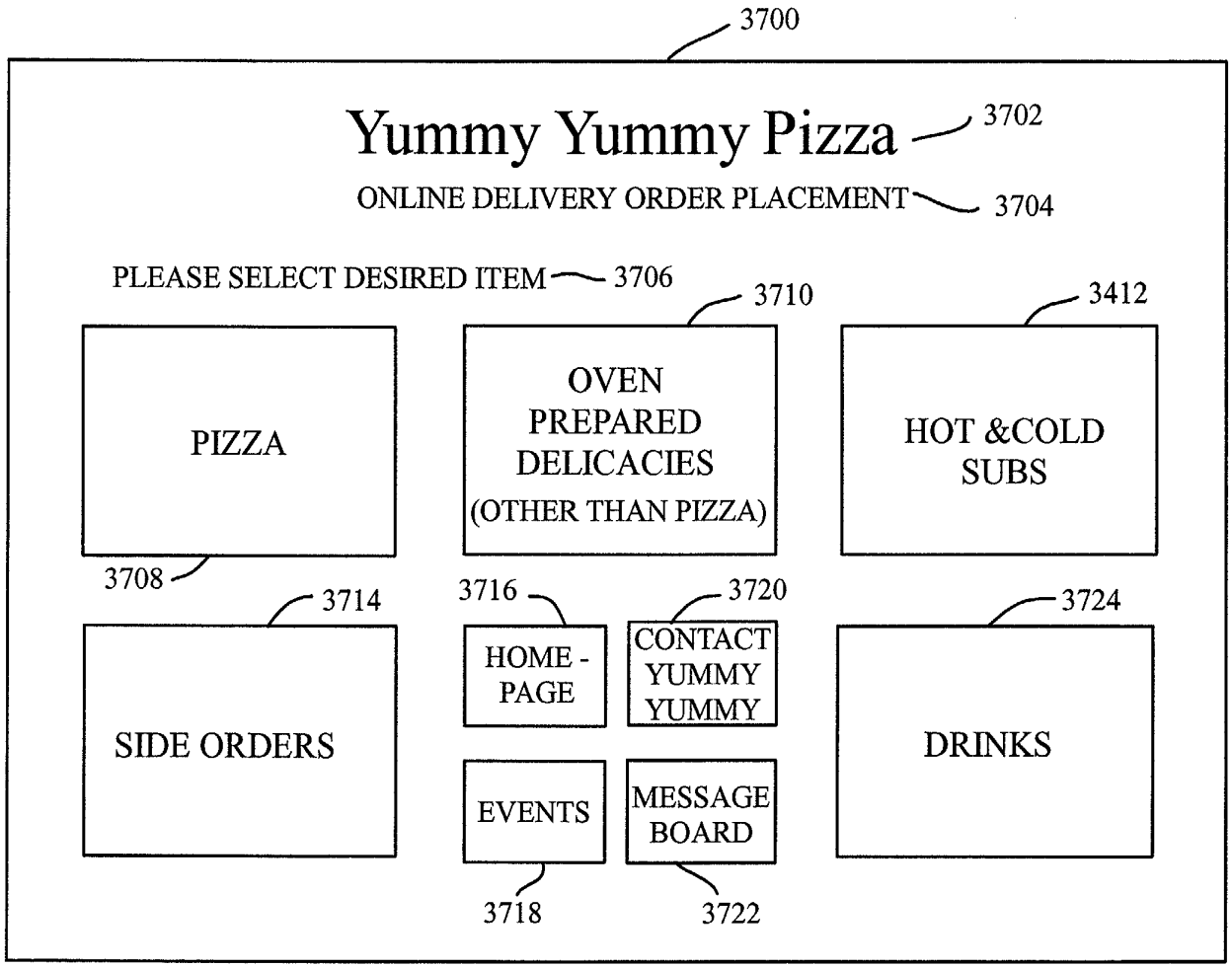

3700
Yummy Yummy Pizza
3702
ONLINE DELIVERY ORDER PLACEMENT
3704
PLEASE SELECT DESIRED ITEM
3706
3710
3412
PIZZA
OVEN PREPARED DELICACIES (OTHER THAN PIZZA)
HOT &COLD SUBS
3708
3714
3716
3720
3724
SIDE ORDERS
HOME - PAGE
CONTACT YUMMY YUMMY
DRINKS
EVENTS
MESSAGE BOARD
3718
3722

Fig. 37

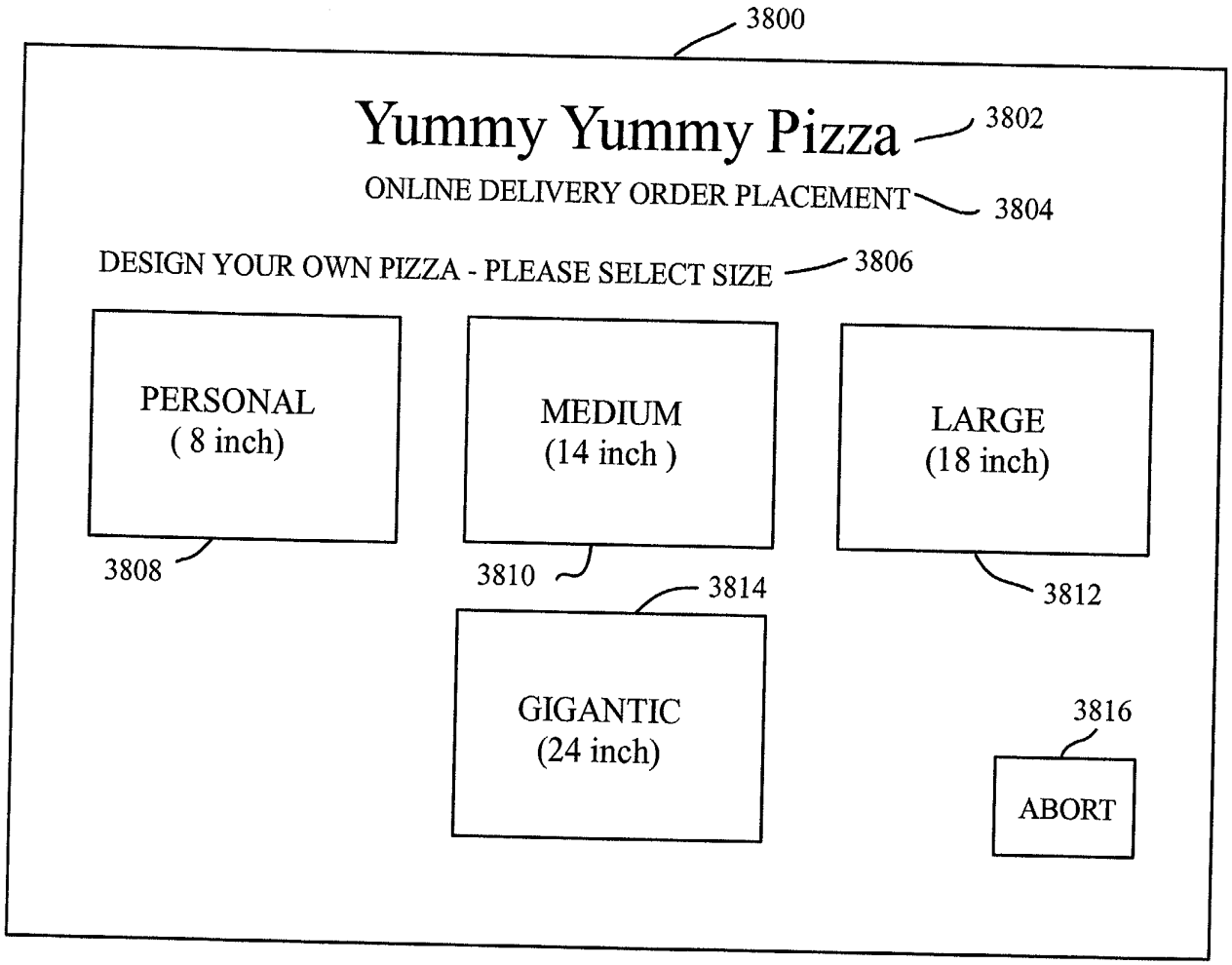

3800
Yummy Yummy Pizza
3802
ONLINE DELIVERY ORDER PLACEMENT
3804
DESIGN YOUR OWN PIZZA - PLEASE SELECT SIZE
3806
PERSONAL
(8 inch)
MEDIUM
(14 inch)
LARGE
(18 inch)
3808
3810
3812
3814
GIGANTIC
(24 inch)
3816
ABORT

Fig. 38

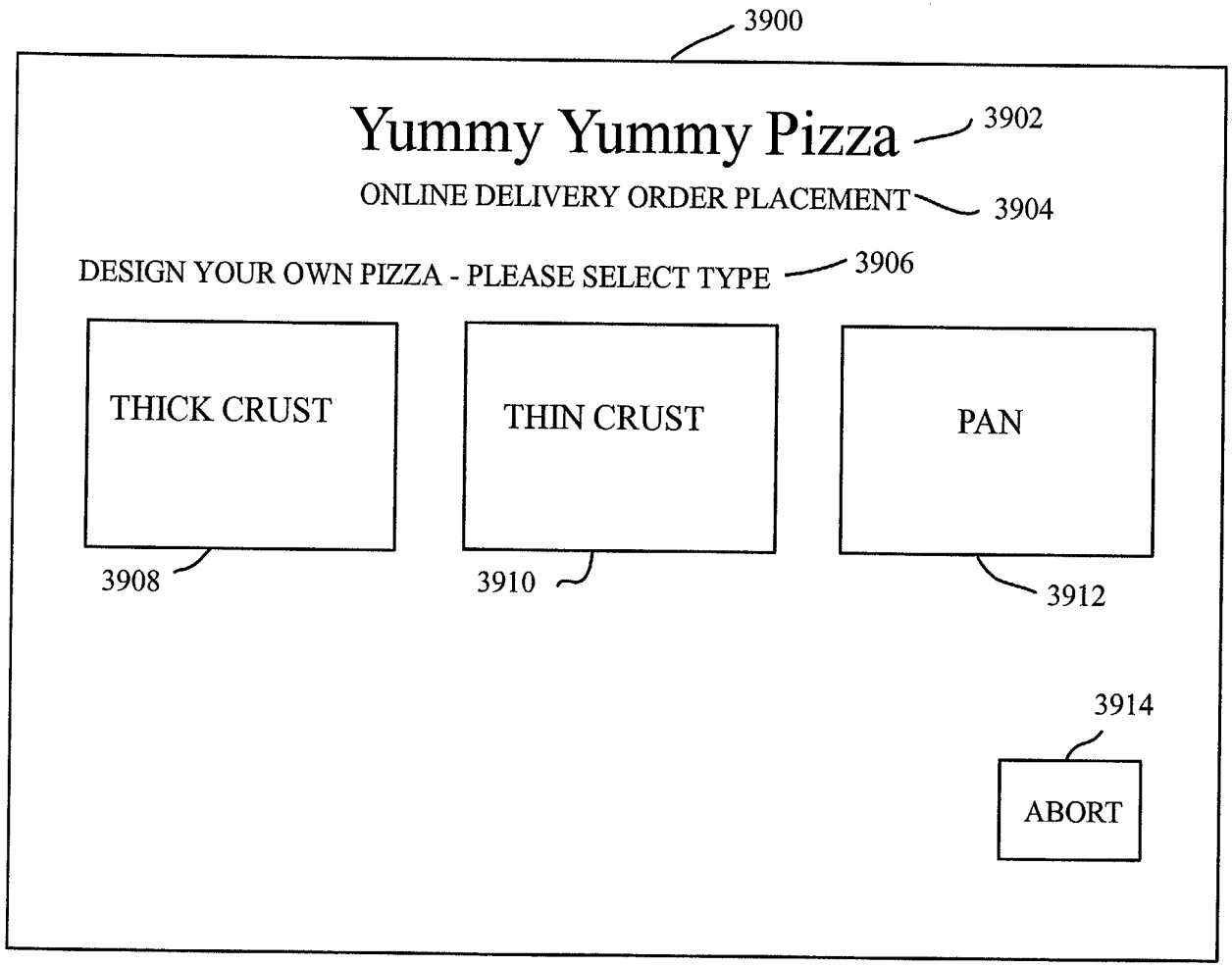

3900
Yummy Yummy Pizza
3902
ONLINE DELIVERY ORDER PLACEMENT
3904
DESIGN YOUR OWN PIZZA - PLEASE SELECT TYPE
3906
THICK CRUST
THIN CRUST
PAN
3908
3910
3912
3914
ABORT

Fig. 39

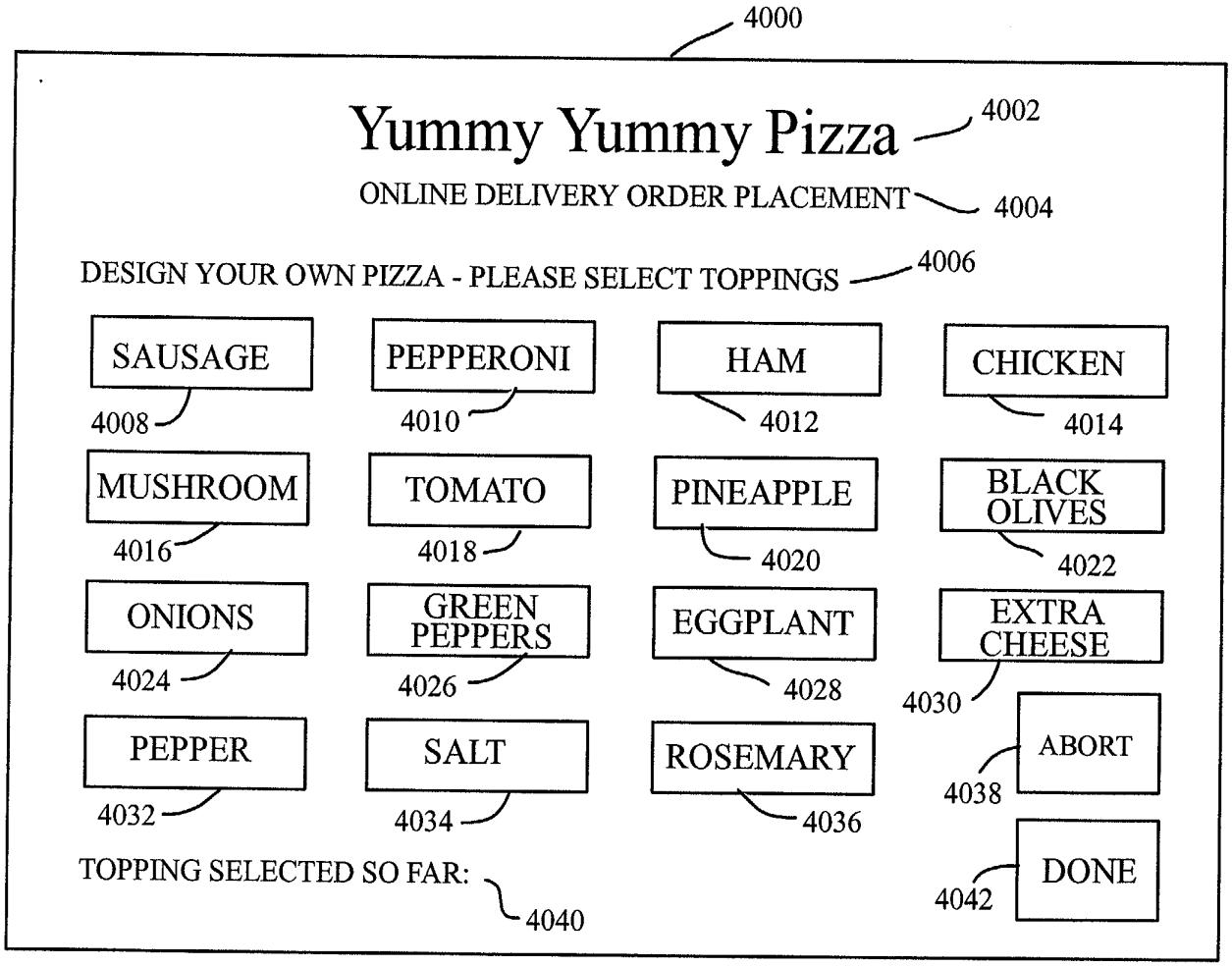

4000
Yummy Yummy Pizza
4002
ONLINE DELIVERY ORDER PLACEMENT
4004
DESIGN YOUR OWN PIZZA - PLEASE SELECT TOPPINGS
4006
SAUSAGE
4008
PEPPERONI
4010
HAM
4012
CHICKEN
4014
MUSHROOM
4016
TOMATO
4018
PINEAPPLE
4020
BLACK OLIVES
4022
ONIONS
4024
GREEN PEPPERS
4026
EGGPLANT
4028
EXTRA CHEESE
4030
PEPPER
4032
SALT
4034
ROSEMARY
4036
ABORT
4038
DONE
4042
TOPPING SELECTED SO FAR:
4040

Fig. 40

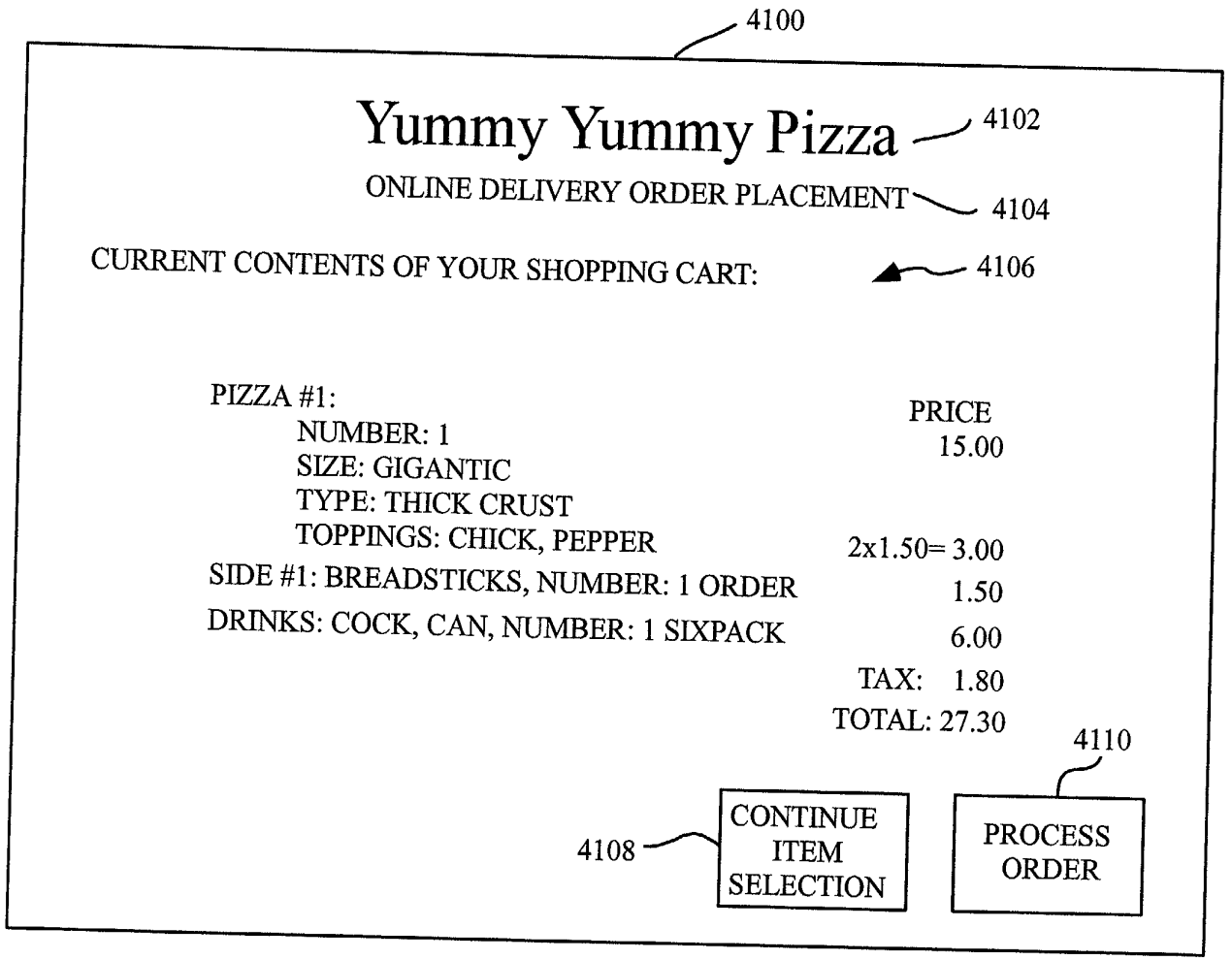

4100
Yummy Yummy Pizza
4102
ONLINE DELIVERY ORDER PLACEMENT
4104
CURRENT CONTENTS OF YOUR SHOPPING CART:
4106
PIZZA #1:
NUMBER: 1
SIZE: GIGANTIC
TYPE: THICK CRUST
TOPPINGS: CHICK, PEPPER
SIDE #1: BREADSTICKS, NUMBER: 1 ORDER
DRINKS: COCK, CAN, NUMBER: 1 SIXPACK
PRICE
15.00
2x1.50= 3.00
1.50
6.00
TAX: 1.80
TOTAL: 27.30
4110
4108
CONTINUE ITEM SELECTION
PROCESS ORDER

Fig. 41

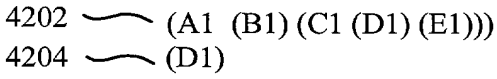


Fig. 42

4302 (user id=bezuwork100 (YA1 (YB1) (YC1) (YD1 (YE1, pizza=1.0, hotfood=1.0) (YF1, hotfood=1.0, bakedness=1.0) (YG1, subs= 1.0, breadness=0.3 sandwich=1.0)) (YH1 (YI1, sideorder=1.0) (YJ1 (YK1 (YL1, homepage=1.0) (YM1, email=1.0)) (YN1 (YO1, events=1.0) (YP1, messagbd=1.0))) (YQ1, drink=1.0))))

4304 (user id=bezuwork100 (YE1))

4306 (user id=bezuwork100 (YA2 (YB2) (YC2) (YD2 (YE2, small=1.0) (YF2, medium=1.0) (YG2, large=1.0)) (YH2 (YI2) (YJ2, extra large=1.0) (YK2, abort=1.0))))

4608 (user id=bezuwork100 (YJ2))

4610 (user id=bezuwork100 (YA3 (YB3) (YC3) (YD3 (YE3, chewy=0.9, thickness=0.6) (YF3, crispy=0.8, thickness=0.7) (YG3, fillingness=0.9)) (YH3, abort=1.0)))

4612 (user id=bezuwork100 (YE3))

4614 (user idbezuwork100 (YA4 (YB4) (YC4) (YD4 (YE4, sauage=1.0) (YF4, pepperoni=1.0) (YG4, ham=1.0) (YH4, chicken=1.0)) (YI4 (YJ4, mushroom=1.0) (YK4, tomato=1.0) (YL4, pineapple=1.0) (YM4, black olives=1.0)) (YN4 (YO4, onion=1.0) (YP4, green peppers1.0) (YQ4, eggplant=1.0) (YR4, cheese=1.0)) (YS4 (YT4, pepper=1.0) (YU4, salt=1.0) (YV4, rosemary=1.0) (YW4, abort=1.0)) (YX4 (YY4) (YZ4, continue=1.0))))

4616 (user id=bezuwork100 (YH4)

4618 (user id=bezuwork100 (YA4 (YB4) (YC4) (YD4 (YE4, sausage=1.0) (YF4, pepperoni=1.0) (YG4, ham=1.0) (YH4, chicken=1.0)) (YI4 (YJ4, mushroom=1.0) (YK4, tomato=1.0) (YL4, pineapple=1.0) (YM4, black olives=1.0)) (YN4 (YO4, onion=1.0) (YP4, green peppers1.0) (YQ4, eggplant=1.0) (YR4, cheese=1.0)) (YS4 (YT4, pepper=1.0) (YU4, salt=1.0) (YV4, rosemary=1.0) (YW4, abort=1.0)) (YX4 (YY4) (YZ4, continue=1.0))))

4620 (user id=bezuwork100 (YT4)

4622 (user id=bezuwork100 (YA4 (YB4) (YC4) (YD4 (YE4, sausage=1.0) (YF4, pepperoni=1.0) (YG4, ham=1.0) (YH4, chicken=1.0)) (YI4 (YJ4, mushroom=1.0) (YK4, tomato=1.0) (YL4, pineapple=1.0) (YM4, black olives=1.0)) (YN4 (YO4, onion=1.0) (yp4, green peppers1.0) (YQ4, eggplant=1.0) (YR4, cheese=1.0)) (YS4 (YT4, pepper=1.0) (YU4, salt=1.0) (YV4, rosemary=1.0) (YW4, abort=1.0)) (YX4 (YY4) chicken=1.0, pepper=1.0)(YZ4, continue=1.0))))

4624 (user id=bezuwork100 (YZ4))

Fig. 43

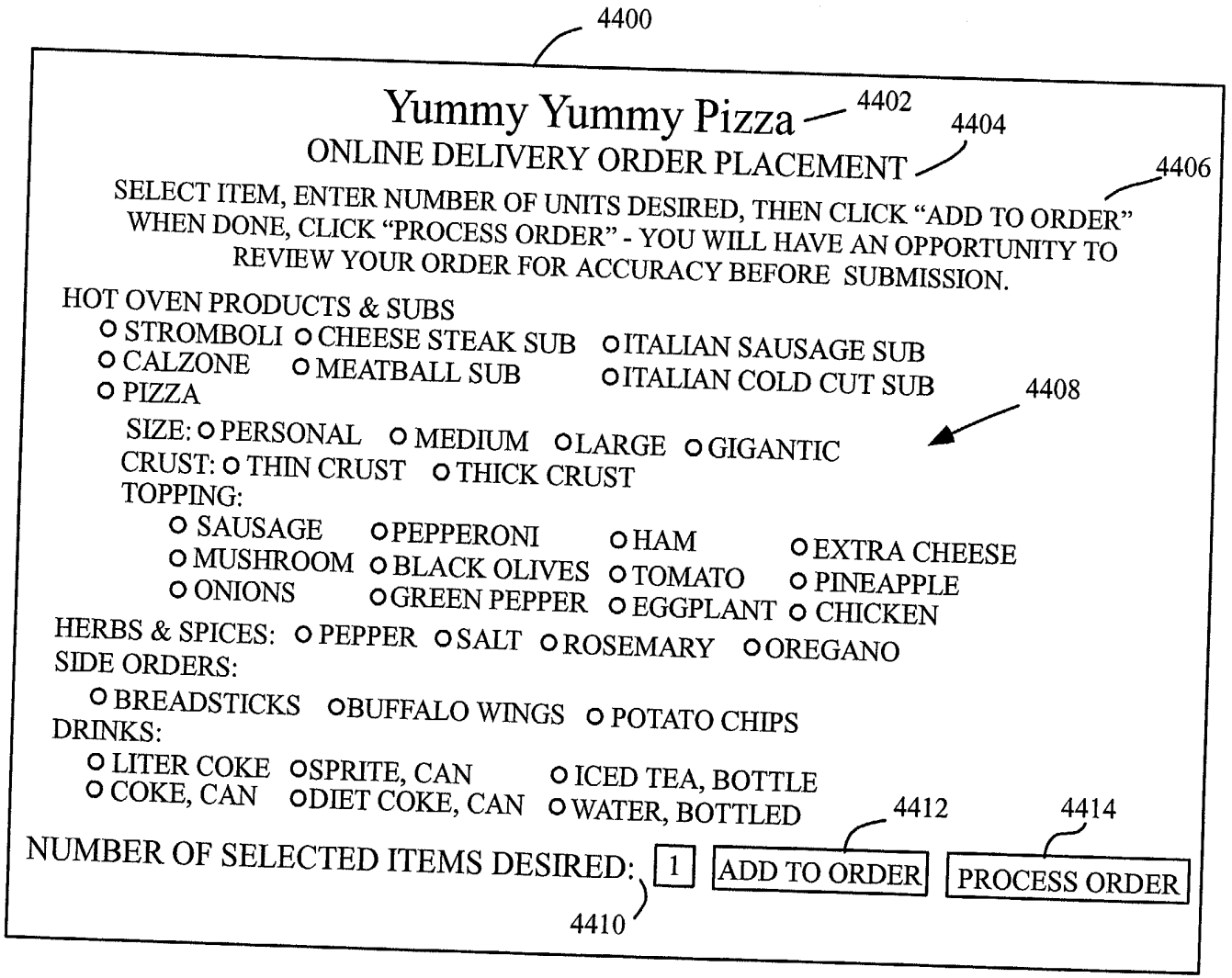

4400
Yummy Yummy Pizza
4402
4404
ONLINE DELIVERY ORDER PLACEMENT
4406
SELECT ITEM, ENTER NUMBER OF UNITS DESIRED, THEN CLICK "ADD TO ORDER"
WHEN DONE, CLICK "PROCESS ORDER" - YOU WILL HAVE AN OPPORTUNITY TO
REVIEW YOUR ORDER FOR ACCURACY BEFORE SUBMISSION.
HOT OVEN PRODUCTS & SUBS
O STROMBOLI O CHEESE STEAK SUB O ITALIAN SAUSAGE SUB
O CALZONE O MEATBALL SUB O ITALIAN COLD CUT SUB
O PIZZA
4408
SIZE: O PERSONAL O MEDIUM O LARGE O GIGANTIC
CRUST: O THIN CRUST O THICK CRUST
TOPPING:
O SAUSAGE O PEPPERONI O HAM O EXTRA CHEESE
O MUSHROOM O BLACK OLIVES O TOMATO O PINEAPPLE
O ONIONS O GREEN PEPPER O EGGPLANT O CHICKEN
HERBS & SPICES: O PEPPER O SALT O ROSEMARY O OREGANO
SIDE ORDERS:
O BREADSTICKS O BUFFALO WINGS O POTATO CHIPS
DRINKS:
O LITER COKE O SPRITE, CAN O ICED TEA, BOTTLE
O COKE, CAN O DIET COKE, CAN O WATER, BOTTLED
4412
4414
NUMBER OF SELECTED ITEMS DESIRED: 1 ADD TO ORDER PROCESS ORDER
4410

Fig. 44

(webpage) 4502~(user id=bezuwork100 (ZA1 (ZB1) (ZC1) ZD1) ZE1) (ZF1) (ZG1, add=1.0) (ZH1, processorder=1.0)))

(response) 4504~(user id=bezuwork100 (ZE1, pizza=1.0, hotfood=1.0, gigantic=1.0, chewy=0.9, thickness=0.6, chicken=topping,1.0, pepper=topping, 1.0, processorder=1.0))

(webpage) 4506~(user id=bezuwork100 (ZA2 (ZB2) (ZC2) (ZD2) (ZE2) (ZF2) (ZG2, add=1.0) (H2, procesorder=1.0)))

(response) 4508~(user id=bezuwork100 (ZE2 breadsticks=1.0, sideorder= 1.0))

(webpage) 4510~(user id=bezuwork100 (ZA3 (ZB3) (ZC3) (ZD3) (ZE3) (ZF3) (ZG3, add=1.0) (ZH3, processorder=1.0)))

(response) 4512~(user id=bezuwork100 (ZE3 coke=1.0, colddrink=is a, 1.0, dataentry value="6"))

Fig. 45

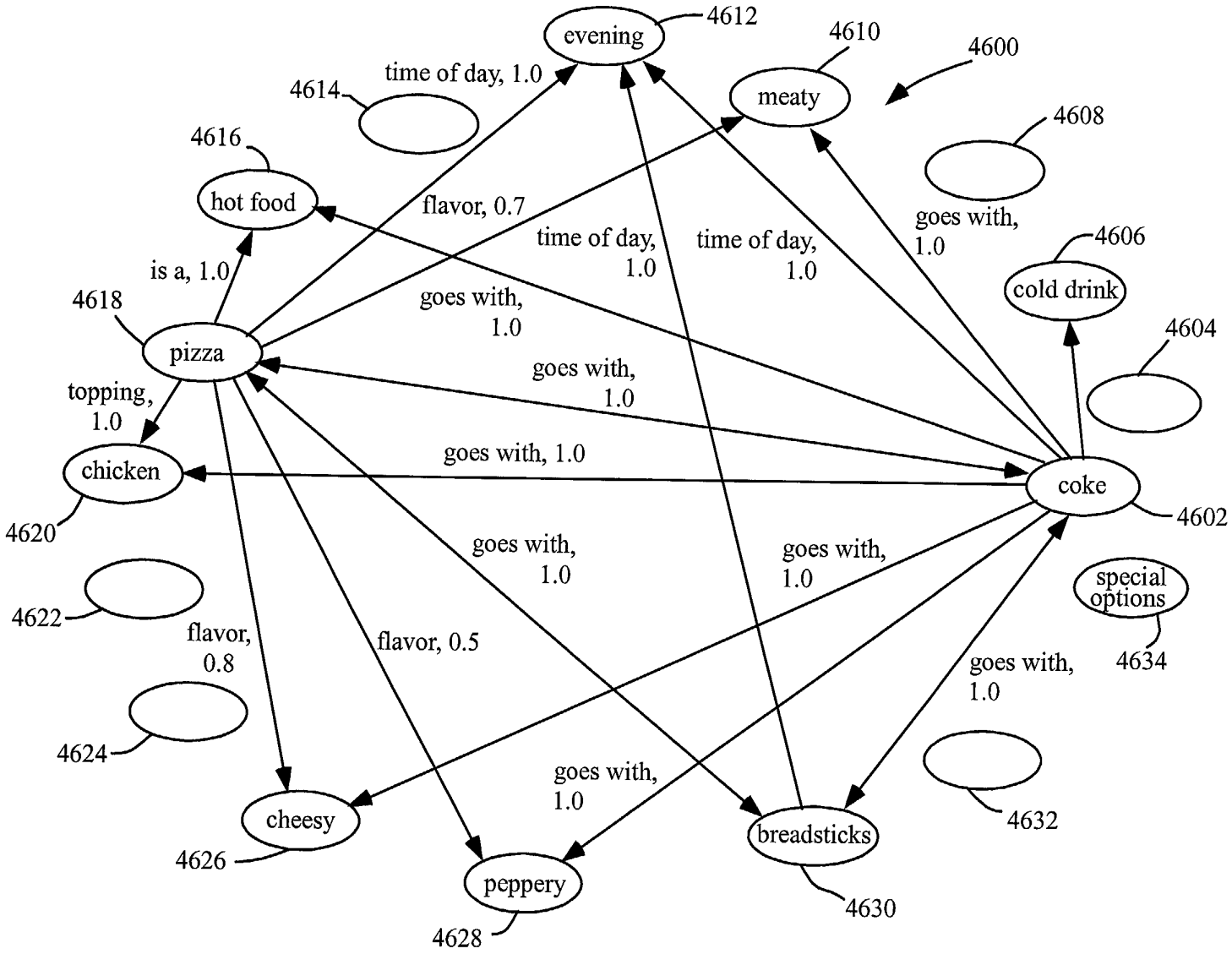

evening
4612
4610
4600
meaty
time of day, 1.0
4614
4616
hot food
4608
goes with, 1.0
flavor, 0.7
time of day, 1.0
time of day, 1.0
4606
cold drink
is a, 1.0
4618
pizza
goes with, 1.0
4604
goes with, 1.0
topping, 1.0
chicken
goes with, 1.0
coke
4602
4620
goes with, 1.0
goes with, 1.0
special options
4634
4622
flavor, 0.8
flavor, 0.5
goes with, 1.0
4624
goes with, 1.0
4632
cheesy
4626
breadsticks
peppery
4630
4628

Fig. 46

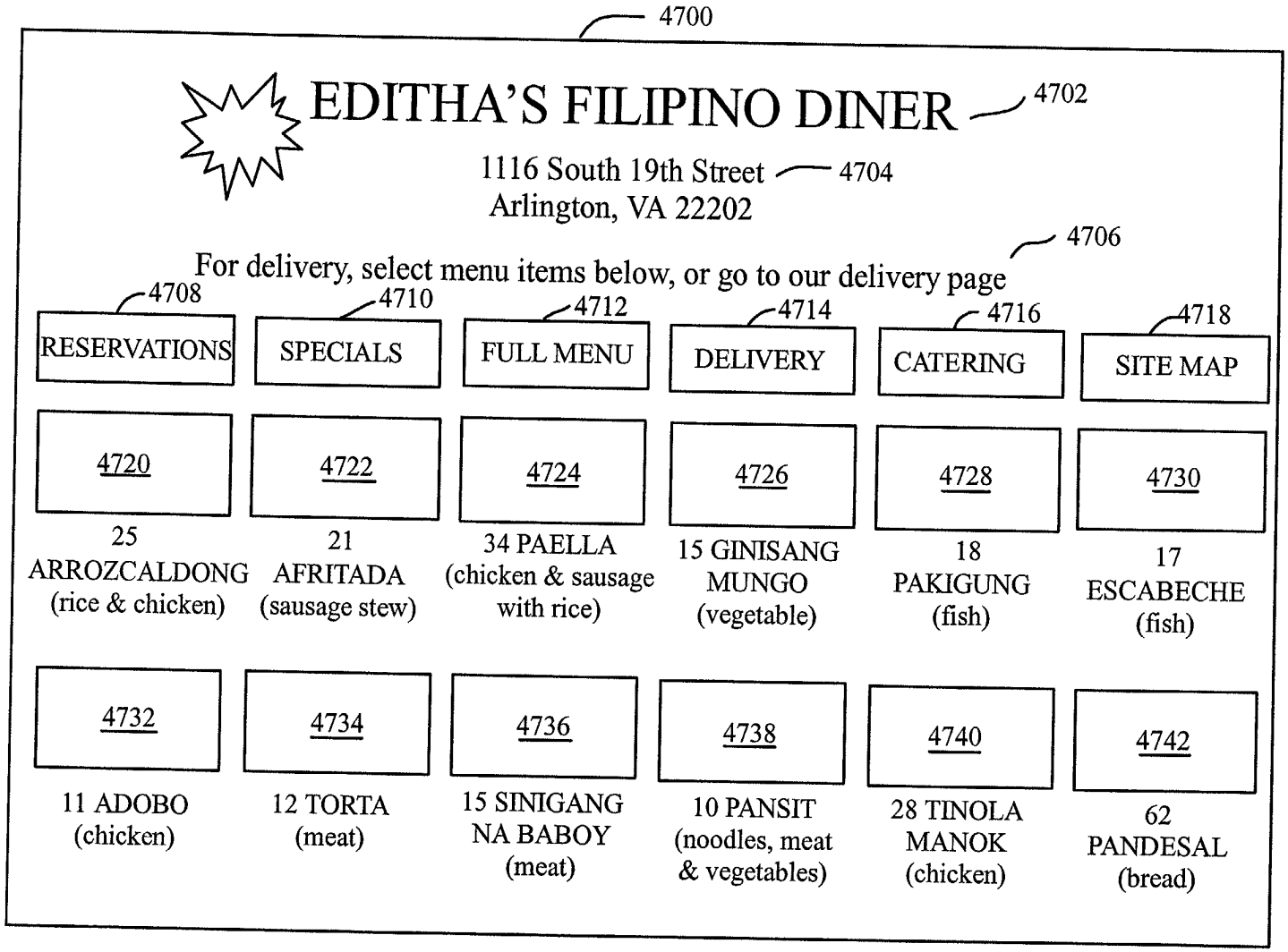

4700
EDITHA'S FILIPINO DINER
4702
1116 South 19th Street
4704
Arlington, VA 22202
4706
For delivery, select menu items below, or go to our delivery page
4708
RESERVATIONS
4710
SPECIALS
4712
FULL MENU
4714
DELIVERY
4716
CATERING
4718
SITE MAP
4720
25 ARROZCALDONG (rice & chicken)
4722
21 AFRITADA (sausage stew)
4724
34 PAELLA (chicken & sausage with rice)
4726
15 GINISANG MUNGO (vegetable)
4728
18 PAKIGUNG (fish)
4730
17 ESCABECHE (fish)
4732
11 ADOBO (chicken)
4734
12 TORTA (meat)
4736
15 SINIGANG NA BABOY (meat)
4738
10 PANSIT (noodles, meat & vegetables)
4740
28 TINOLA MANOK (chicken)
4742
62 PANDESAL (bread)

Fig. 47

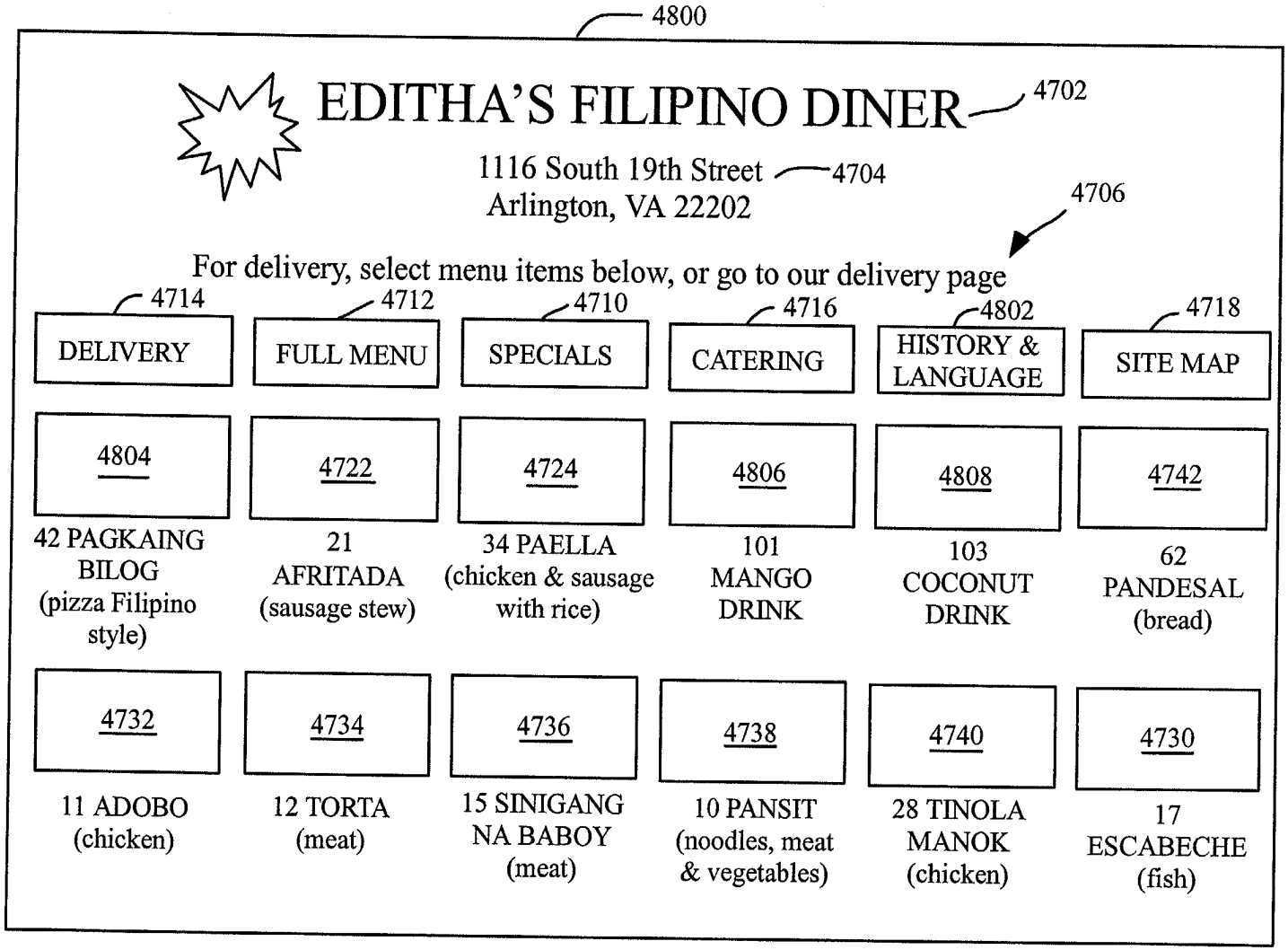

4800
EDITHA'S FILIPINO DINER
4702
1116 South 19th Street
4704
Arlington, VA 22202
4706
For delivery, select menu items below, or go to our delivery page
4714
DELIVERY
4712
FULL MENU
4710
SPECIALS
4716
CATERING
4802
HISTORY & LANGUAGE
4718
SITE MAP
4804
42 PAGKAING BILOG (pizza Filipino style)
4722
21 AFRITADA (sausage stew)
4724
34 PAELLA (chicken & sausage with rice)
4806
101 MANGO DRINK
4808
103 COCONUT DRINK
4742
62 PANDESAL (bread)
4732
11 ADOBO (chicken)
4734
12 TORTA (meat)
4736
15 SINIGANG NA BABOY (meat)
4738
10 PANSIT (noodles, meat & vegetables)
4740
28 TINOLA MANOK (chicken)
4730
17 ESCABECHE (fish)

Fig. 48

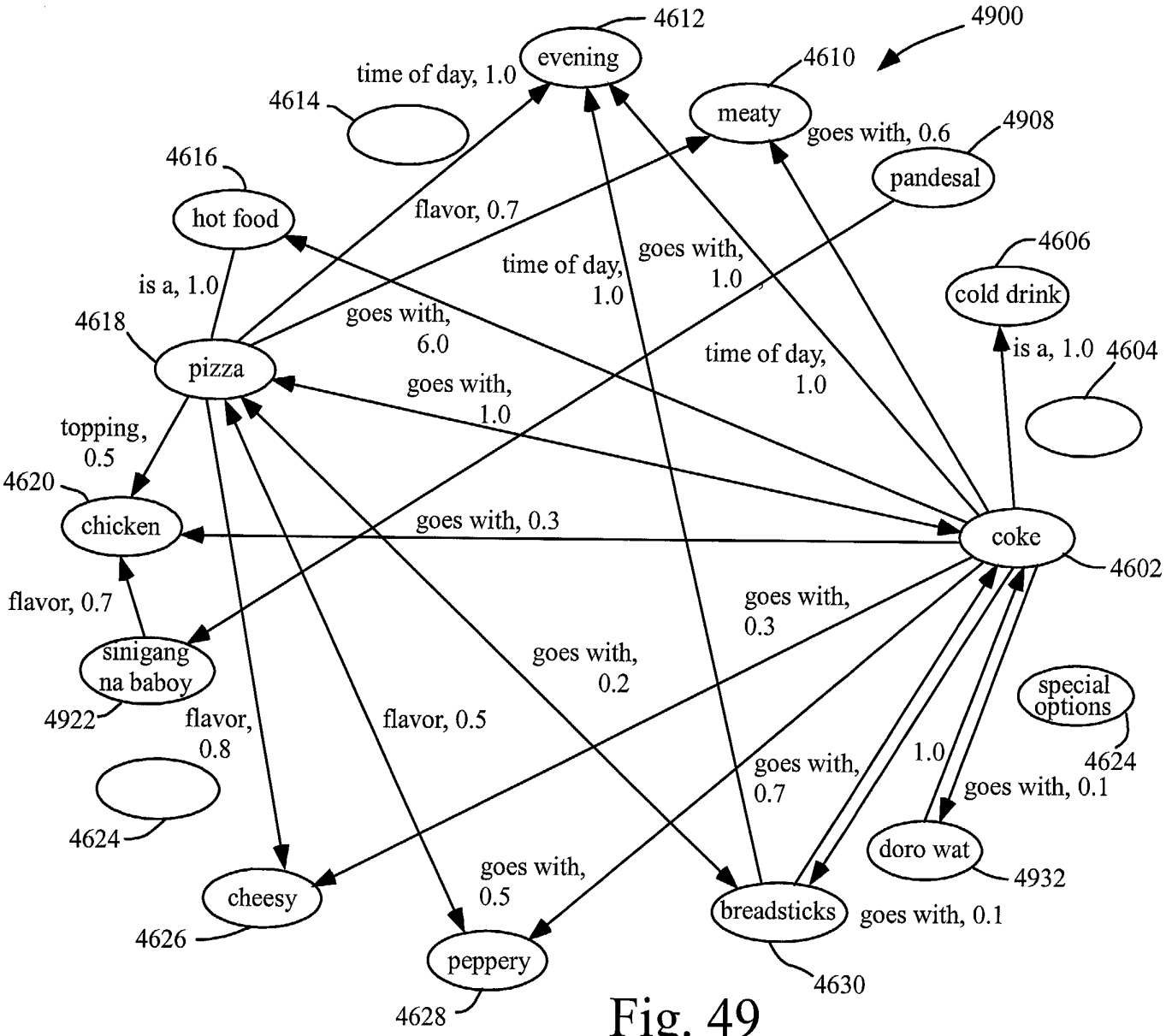

4900
4612
evening
time of day, 1.0
4614
4610
meaty
goes with, 0.6
4908
pandesal
4616
hot food
flavor, 0.7
4606
cold drink
time of day, 1.0
goes with, 1.0
is a, 1.0
goes with, 6.0
4618
pizza
time of day, 1.0
is a, 1.0
4604
goes with, 1.0
topping, 0.5
4620
chicken
goes with, 0.3
coke
4602
flavor, 0.7
goes with, 0.3
sinigang na baboy
4922
goes with, 0.2
special options
4624
flavor, 0.8
flavor, 0.5
1.0
goes with, 0.7
goes with, 0.1
4624
doro wat
4932
goes with, 0.5
cheesy
4626
breadsticks
goes with, 0.1
peppery
4628
4630

Fig. 49

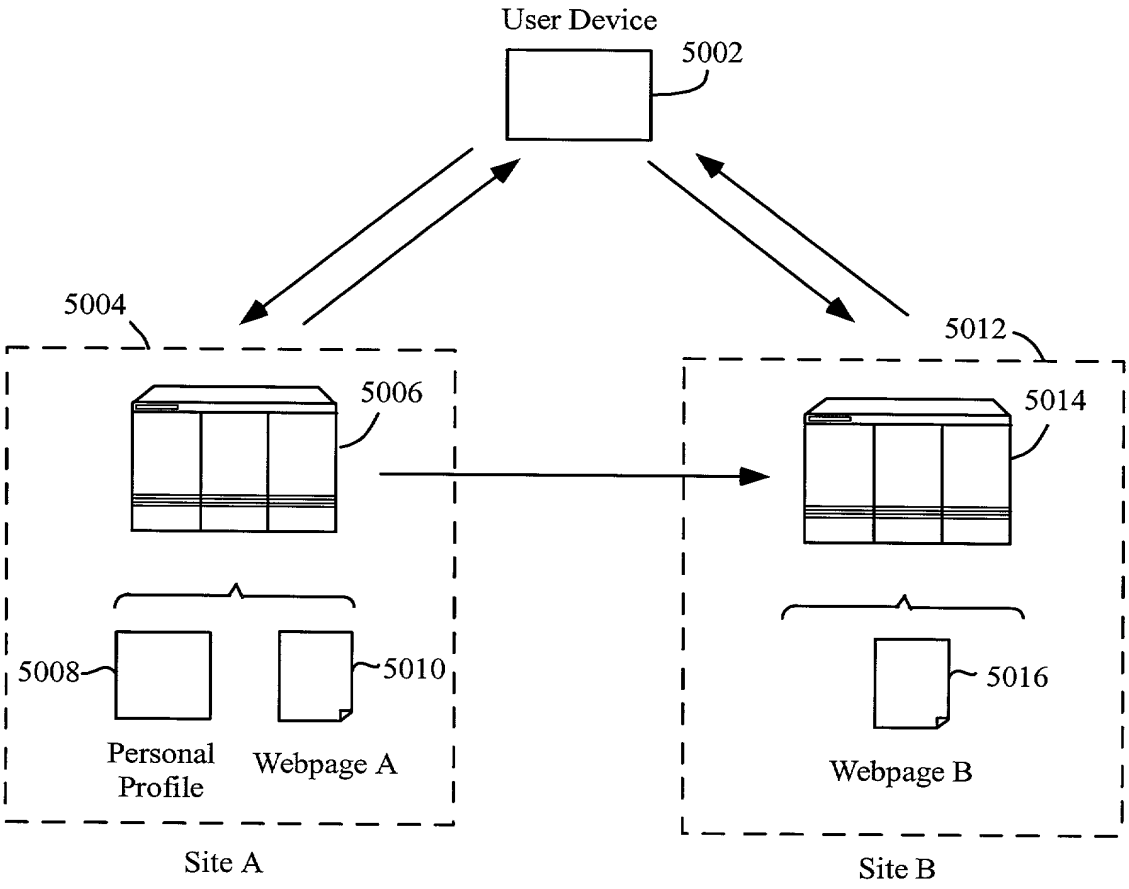

User Device
5002
5004
5012
5006
5014
5008
5010
5016
Personal Profile
Webpage A
Webpage B
Site A
Site B

Fig. 50

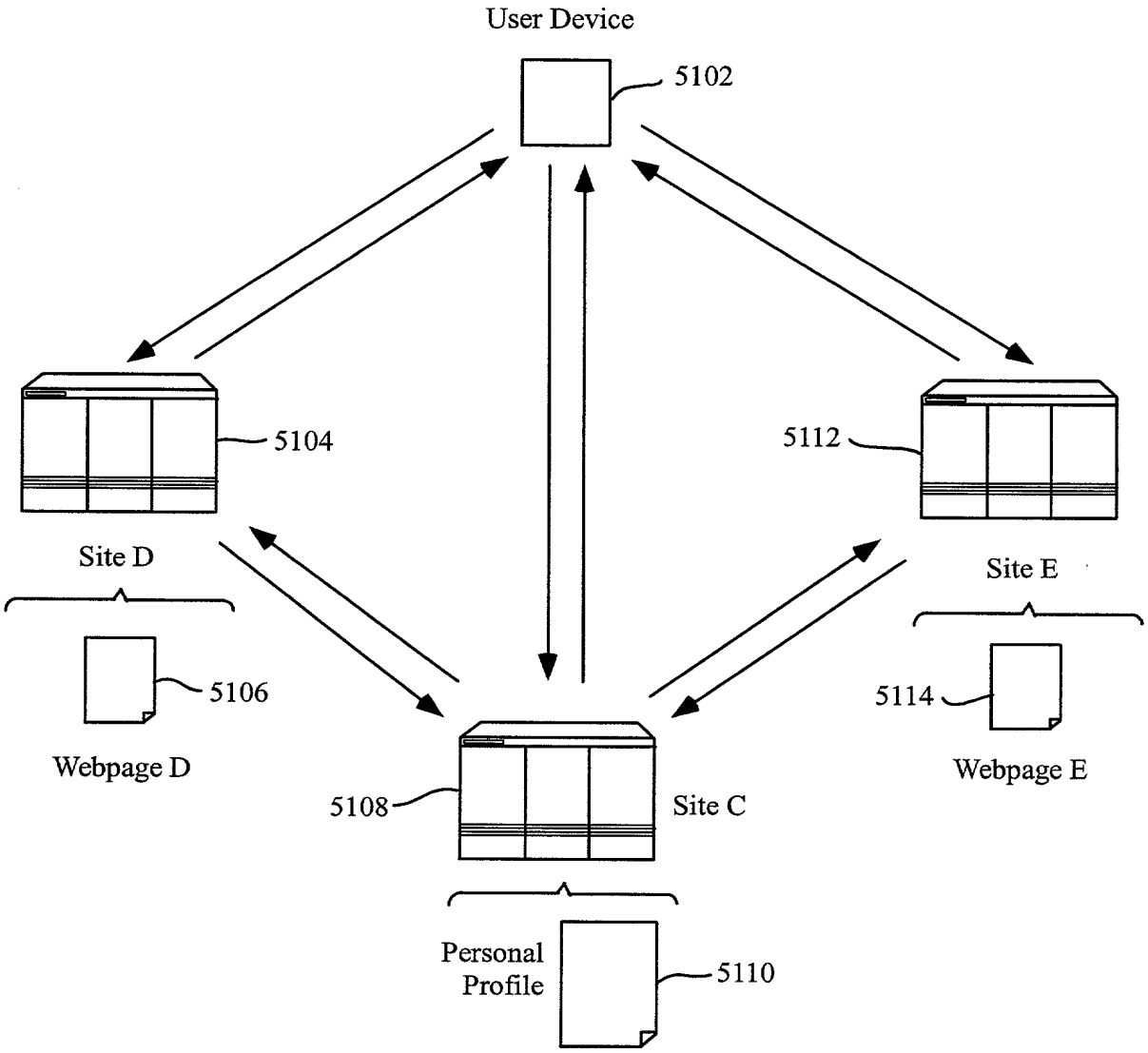

User Device
5102
5104
Site D
5106
Webpage D
5112
Site E
5114
Webpage E
5108
Site C
Personal Profile
5110

Fig. 51

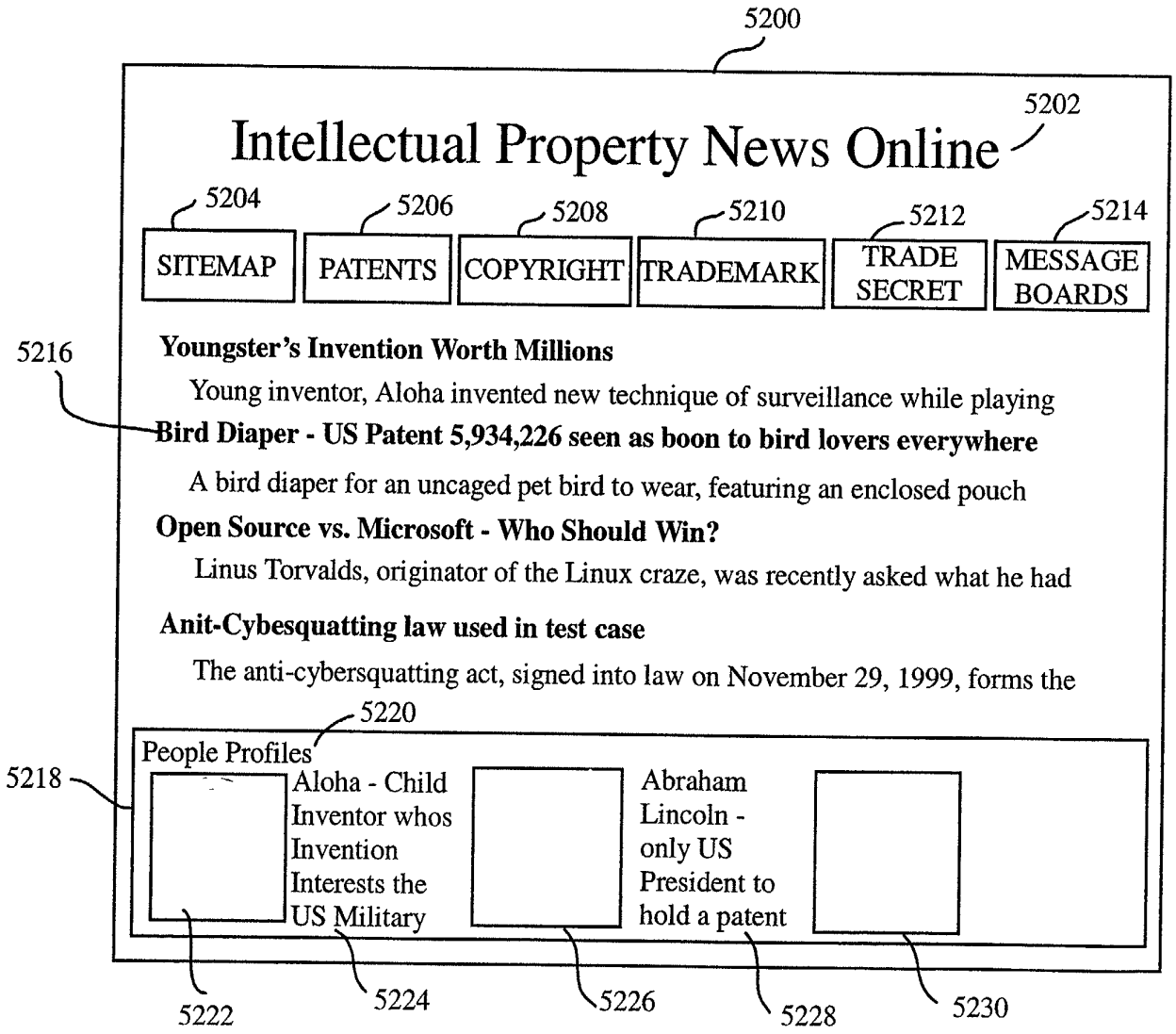
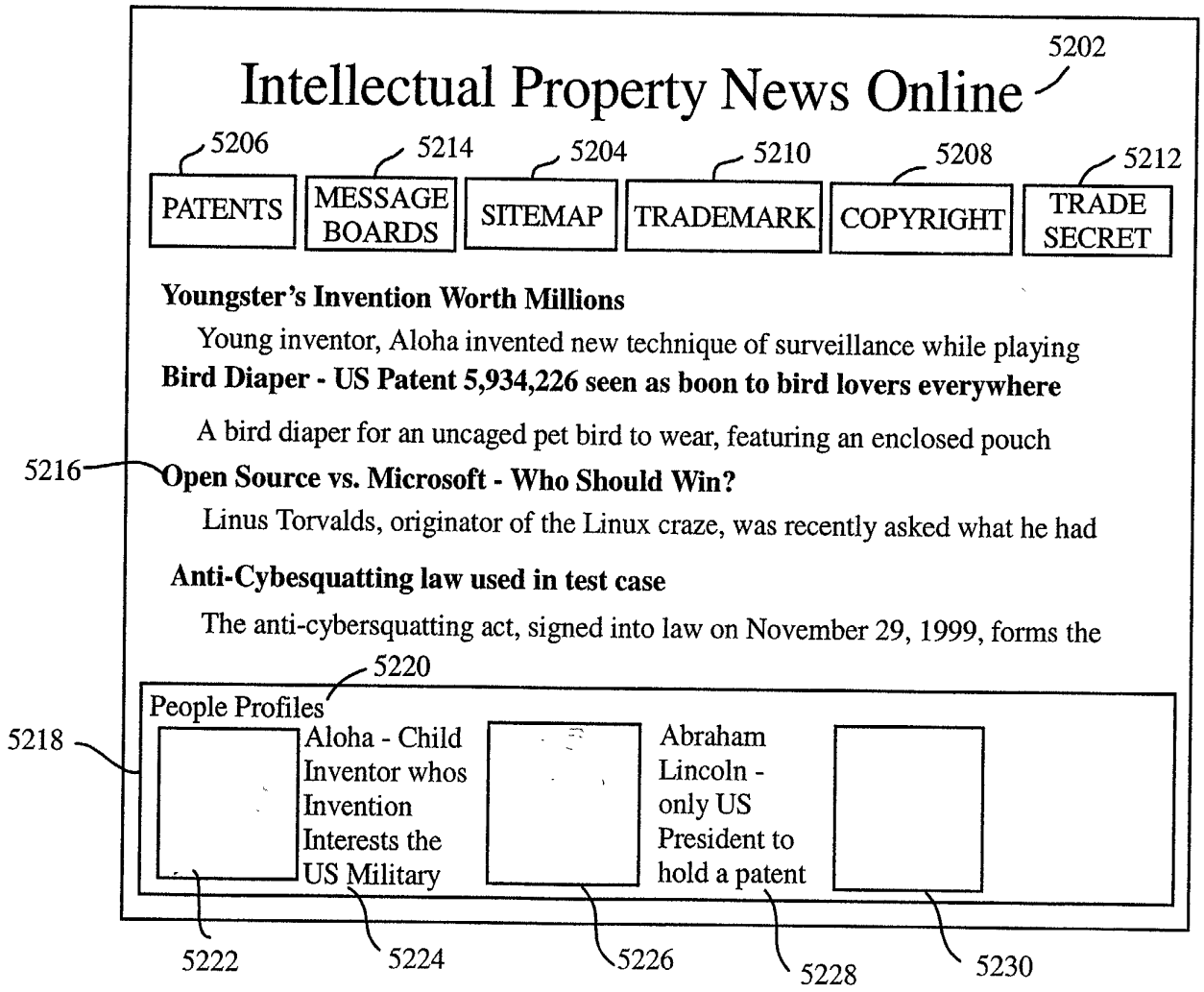

5200
Intellectual Property News Online
5202
5204
5206
5208
5210
5212
5214
SITEMAP
PATENTS
COPYRIGHT
TRADEMARK
TRADE SECRET
MESSAGE BOARDS
5216
Youngster's Invention Worth Millions
Young inventor, Aloha invented new technique of surveillance while playing
Bird Diaper - US Patent 5,934,226 seen as boon to bird lovers everywhere
A bird diaper for an uncaged pet bird to wear, featuring an enclosed pouch
Open Source vs. Microsoft - Who Should Win?
Linus Torvalds, originator of the Linux craze, was recently asked what he had
Anit-Cybesquatting law used in test case
The anti-cybersquatting act, signed into law on November 29, 1999, forms the
5220
People Profiles
5218
Aloha - Child Inventor whos Invention Interests the US Military
Abraham Lincoln - only US President to hold a patent
5222
5224
5226
5228
5230

Fig. 52


Intellectual Property News Online
5202
5206
5214
5204
5210
5208
5212
PATENTS
MESSAGE BOARDS
SITEMAP
TRADEMARK
COPYRIGHT
TRADE SECRET
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5216
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The anti-cybersquatting act, signed into law on November 29, 1999, forms the
5220
People Profiles
5218
Aloha - Child Inventor whos Invention Interests the US Military
Abraham Lincoln - only US President to hold a patent
5222
5224
5226
5228
5230

Fig. 53

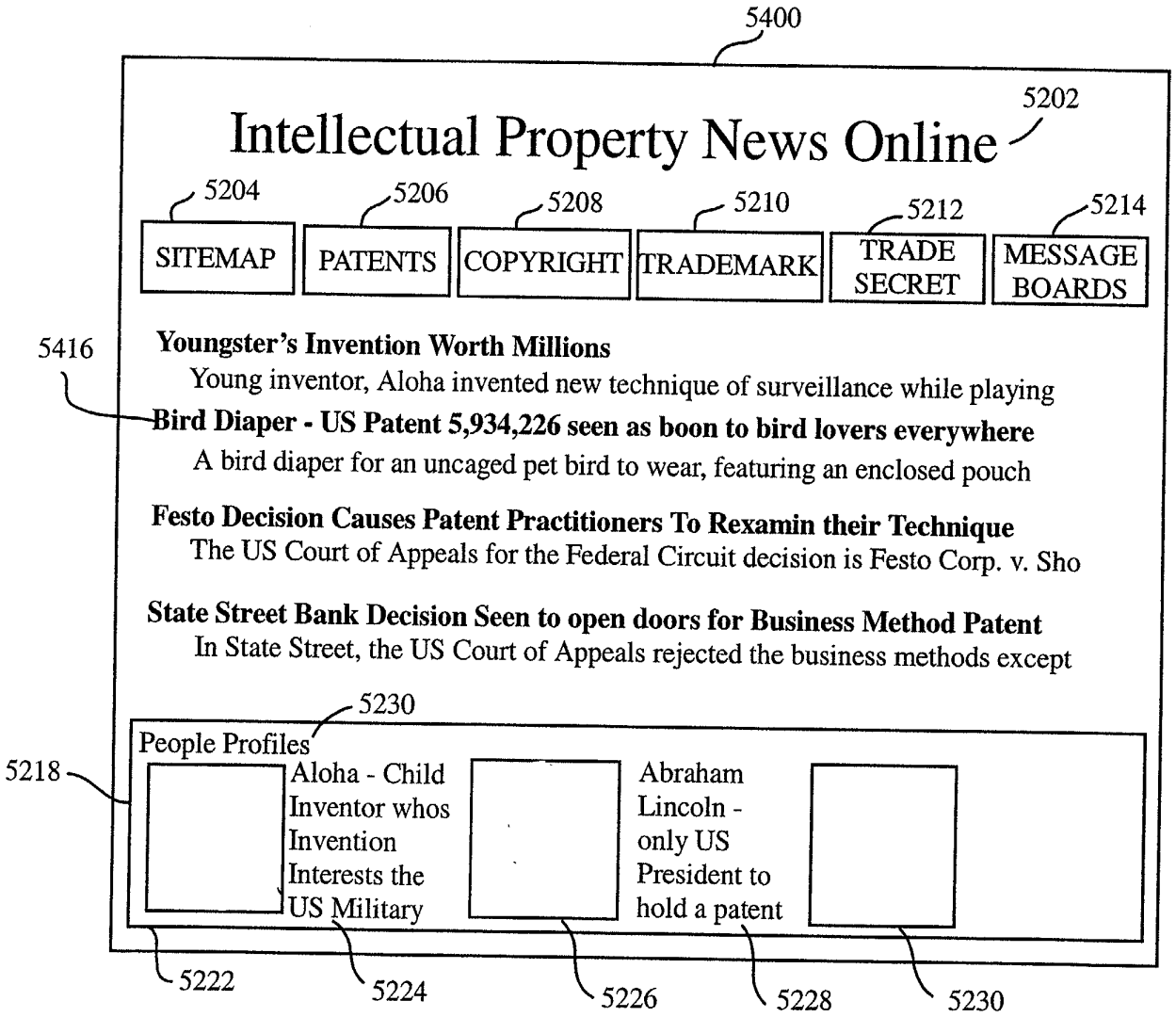
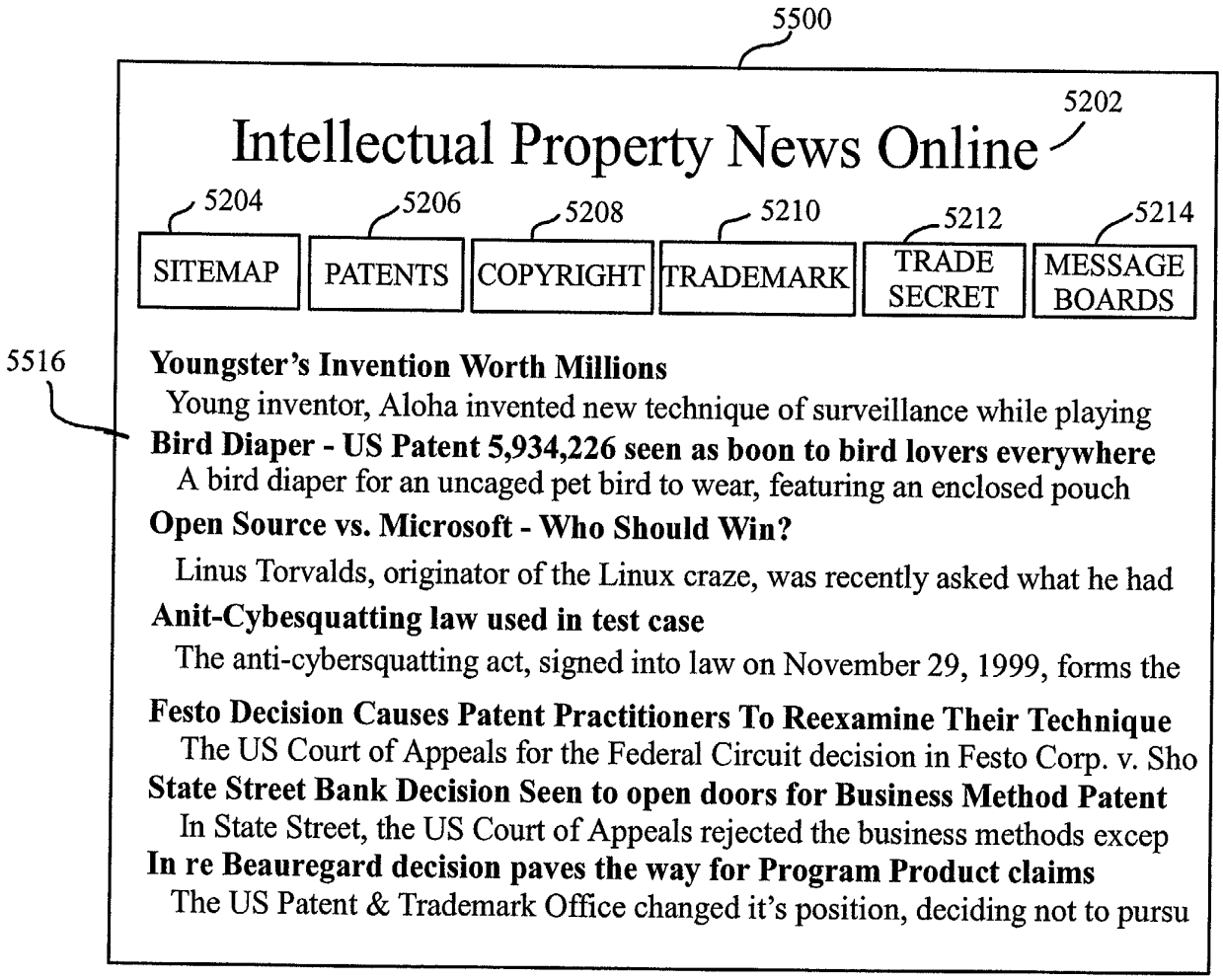

5400
Intellectual Property News Online
5202
5204
5206
5208
5210
5212
5214
SITEMAP
PATENTS
COPYRIGHT
TRADEMARK
TRADE SECRET
MESSAGE BOARDS
5416
Youngster's Invention Worth Millions
Young inventor, Aloha invented new technique of surveillance while playing
Bird Diaper - US Patent 5,934,226 seen as boon to bird lovers everywhere
A bird diaper for an uncaged pet bird to wear, featuring an enclosed pouch
Festo Decision Causes Patent Practitioners To Rexamin their Technique
The US Court of Appeals for the Federal Circuit decision is Festo Corp. v. Sho
State Street Bank Decision Seen to open doors for Business Method Patent
In State Street, the US Court of Appeals rejected the business methods except
5230
People Profiles
5218
Aloha - Child Inventor whos Invention Interests the US Military
Abraham Lincoln - only US President to hold a patent
5222
5224
5226
5228
5230

Fig. 54


5500
Intellectual Property News Online
5202
5204
5206
5208
5210
5212
5214
SITEMAP
PATENTS
COPYRIGHT
TRADEMARK
TRADE SECRET
MESSAGE BOARDS
5516
Youngster's Invention Worth Millions
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Festo Decision Causes Patent Practitioners To Reexamine Their Technique
The US Court of Appeals for the Federal Circuit decision in Festo Corp. v. Sho
State Street Bank Decision Seen to open doors for Business Method Patent
In State Street, the US Court of Appeals rejected the business methods excep
In re Beauregard decision paves the way for Program Product claims
The US Patent & Trademark Office changed it's position, deciding not to pursu

Fig. 55

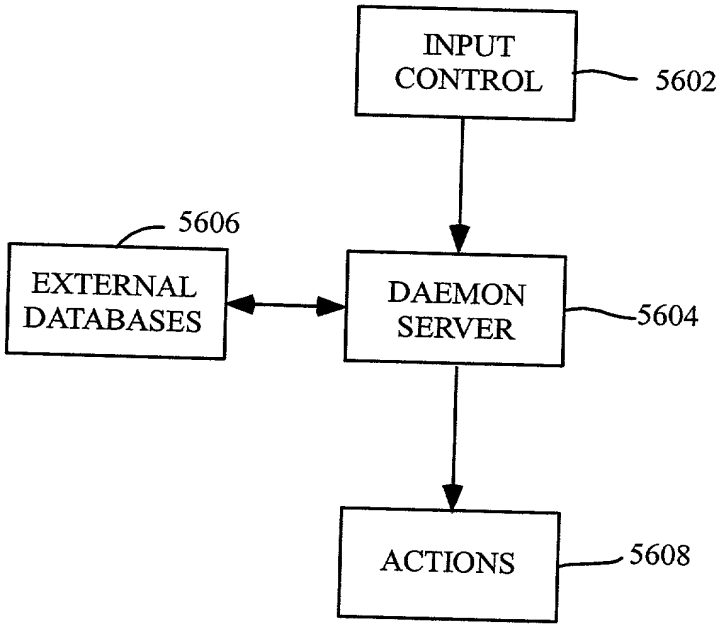
INPUT CONTROL
5602
5606
EXTERNAL DATABASES
DAEMON SERVER
5604
ACTIONS
5608

Fig. 56

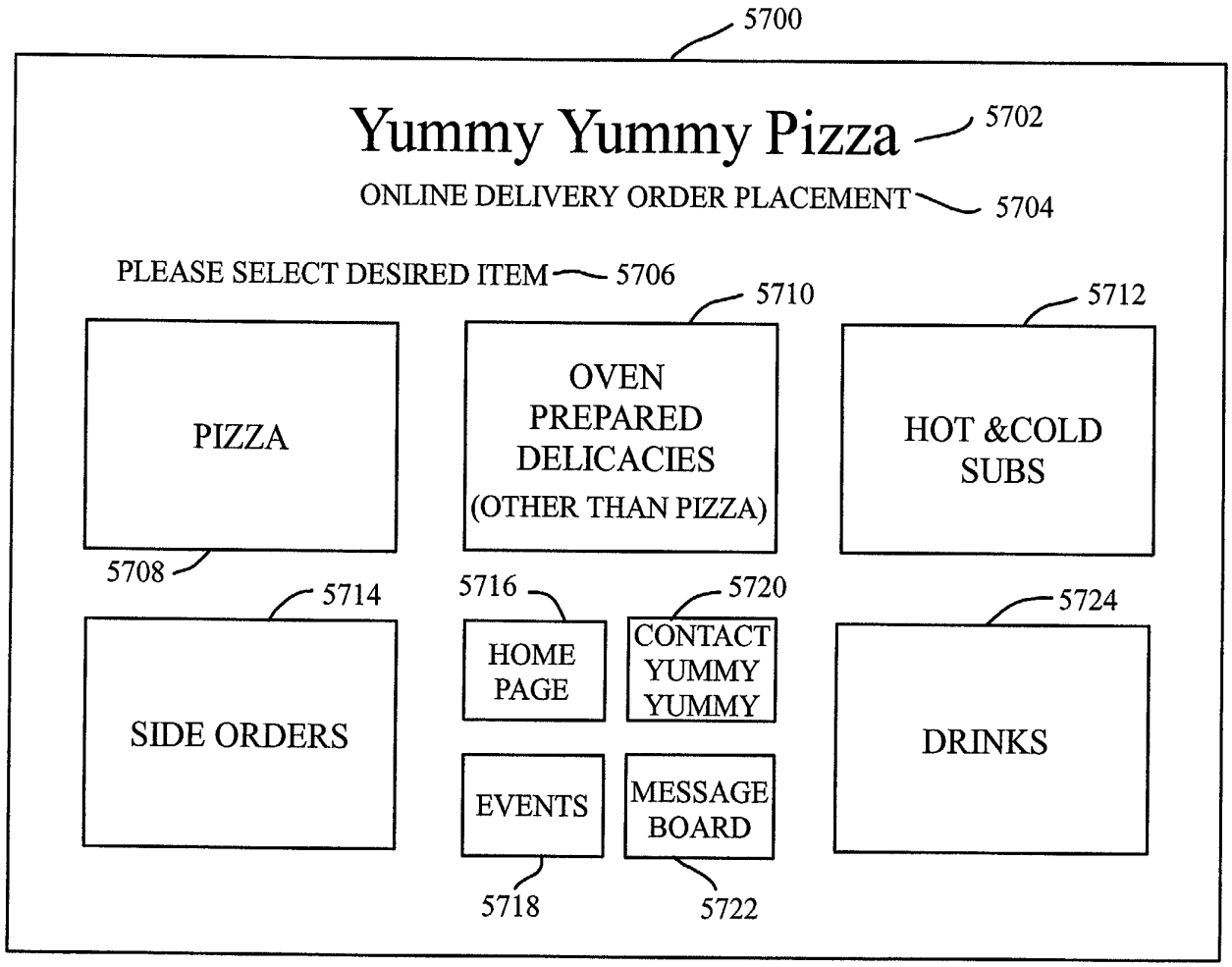
5700
Yummy Yummy Pizza
5702
ONLINE DELIVERY ORDER PLACEMENT
5704
PLEASE SELECT DESIRED ITEM
5706
5710
5712
PIZZA
OVEN PREPARED DELICACIES (OTHER THAN PIZZA)
HOT &COLD SUBS
5708
5714
5716
5720
5724
SIDE ORDERS
HOME PAGE
CONTACT YUMMY YUMMY
DRINKS
EVENTS
MESSAGE BOARD
5718
5722

Fig. 57

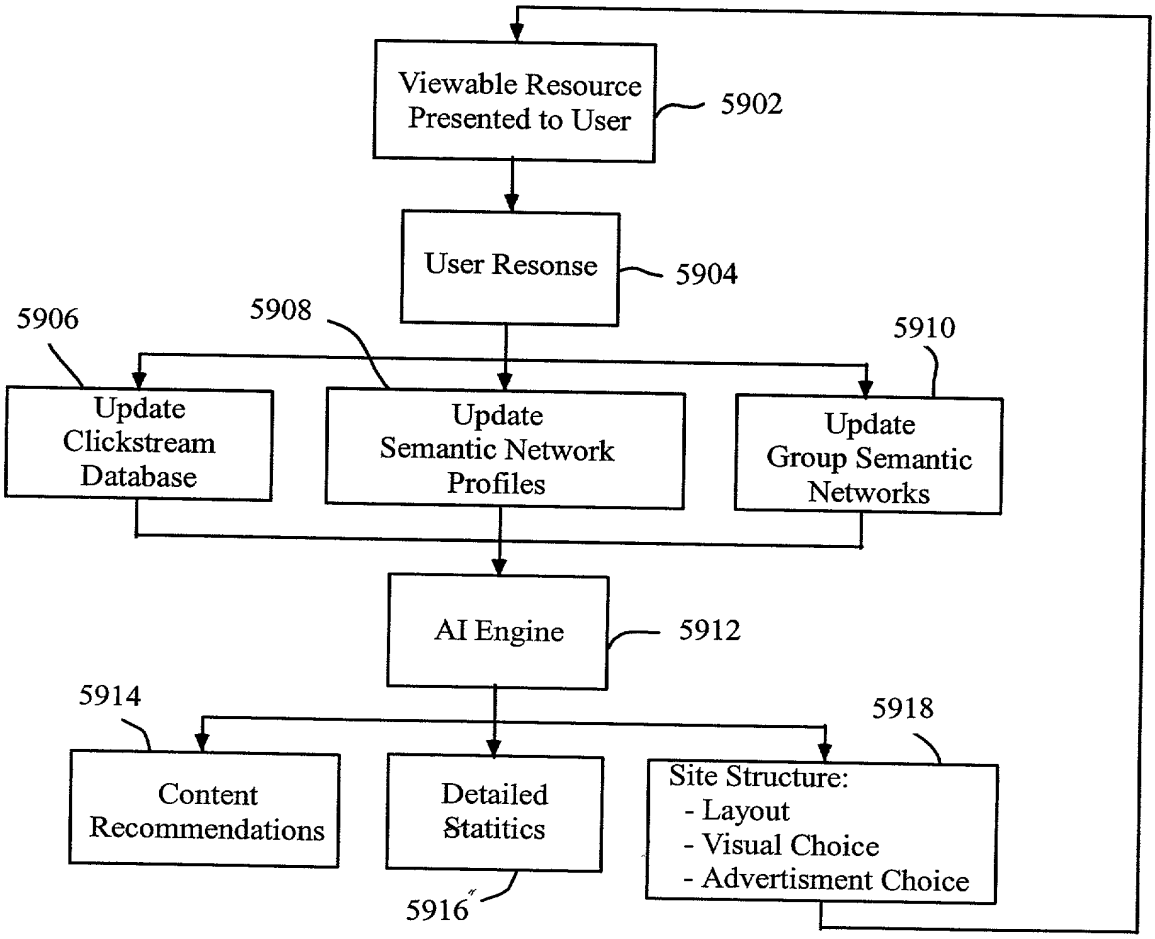
Viewable Resource Presented to User
5902
User Resonse
5904
5906
5908
5910
Update Clickstream Database
Update Semantic Network Profiles
Update Group Semantic Networks
AI Engine
5912
5914
5918
Content Recommendations
Detailed Statitics
Site Structure:
- Layout
- Visual Choice
- Advertisment Choice
5916

Fig. 58

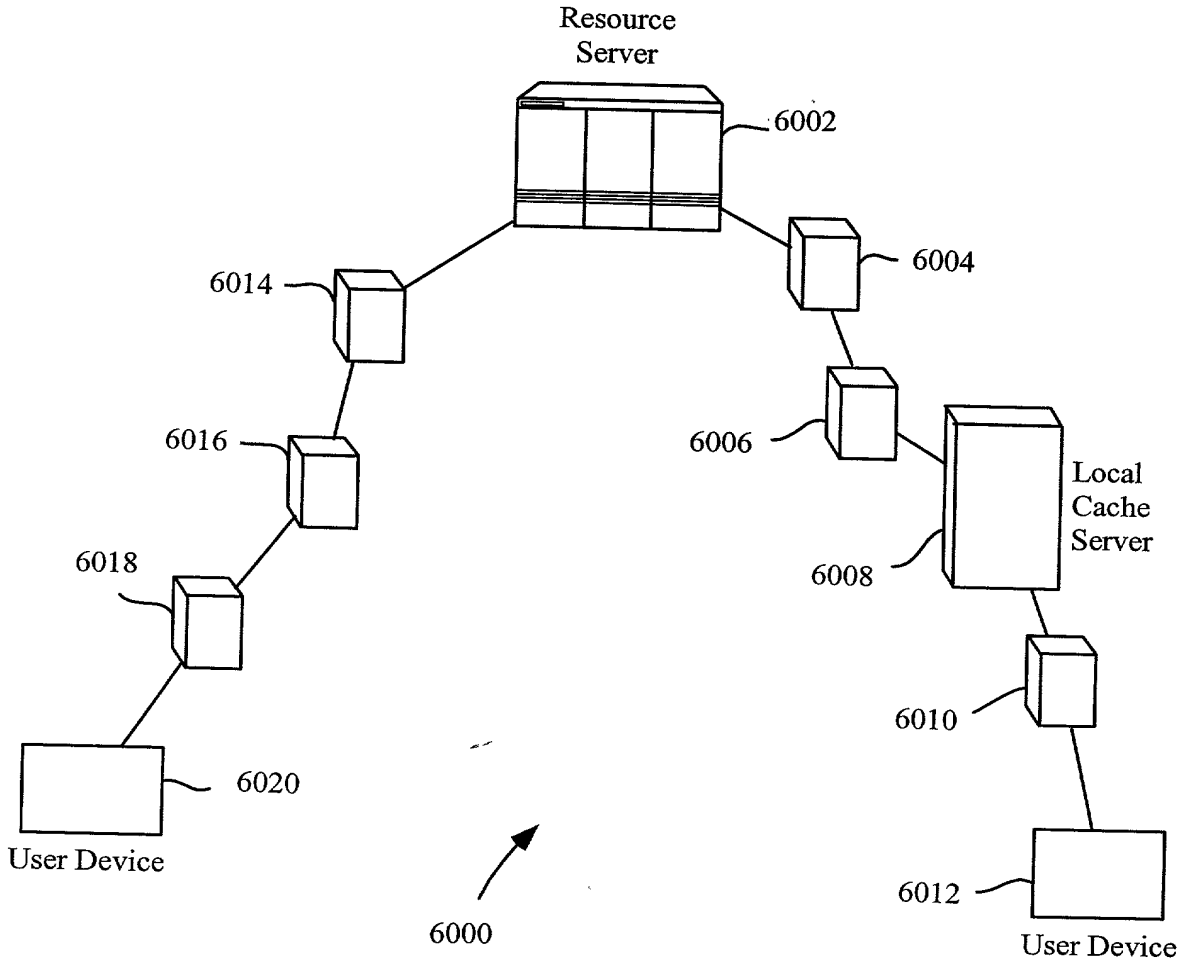
Resource
Server
6002
6004
6014
6016
6006
Local
Cache
Server
6018
6008
6010
6020
User Device
6012
User Device
6000

Fig. 59

```
<?xml version="1.0"?>

<componentDefinition>
        <identification>
                <name value="componentSprint"/>
                <type value="normal"/>
        </identification>
        <relatives>
                <relative value="componentSprint">
        </relatives>
        </struct>
                <reference value="this"/>
        </struct>
        <properties>
        </properties>
        <data type="none">
                <![CDATA[] ]>
        </data>
        <interface type="text/html">
                <![CDATA []]>
        </interface>
        <code language="WebL">
                <![CDATA[
                import Java;
                / / @CCID
                / / Define Java API interface
                / / Specify the particular Method that contains the routines for the API calls
                var jClass = Java_New ("Future4");
                var API – jClass.getOCPDS (ccID);
                / / Begin
                var carrierName = "Sprint PCS";
                var baseURL =
"http://www.messaging.sprintpcs.com/sms/check_message_syntax.html?callbacknum=
7777777777";
                var messageHeader = "&message=";
                var defaultMessage = "This+is+a+sample+message";
                var message = API.gOQV ("message");
                var mobileHeader = "&mobilenum=";
                var defaultMobileNum = "7038631132";
                var mobileNum = API.gOQV ("mobileNumber");
                if message = = " " or message = = nil then
                        message = defaultMessage;
                end;
                if mobilenum = = " " or mobileNum = = nil then
                        mobileNum = defaultMobileNum;
                end;
                var P = GetURL(baseUrl + messageHeader + message + mobileHeader +
mobileNum);
```

Fig. 60A

```
                var myOutput = carrierName + " message sent.";
                API.sCI(cID, "test/html", myOutput);
                ]]>
        </code>
        <activationCode language="JavaScript">
                <![CDATA [ ] ]>
        </activationCode>
</componentDefinition>
```

Fig. 60 B

2023-11-22 09:56:50

```
<?xml version="1.0"?>

<componentDefinition>
        <identification>
                <name value="componentSprintRU"/>
                <type value="preex"/>
        </identification>
        <ruleset>
                <name value="products"/>
        </ruleset>
        <relatives>
        </relatives>
        </struct>
                <reference value="this"/>
        </struct>
        <properties>
        </properties>
        <data type="xml">
                <![CDATA[ ]]>
        </data>
        <interface type="text/html">
                <![CDATA [ ]]>
        </interface>
        <code language="JavaScript">
                <![CDATA [ ]]>
        </code>
        <activationCode language="JavaScript">
                <![CDATA [ ]]>
        </activationCode>
</componentDefinition>
```

Fig.61

```
<?xml versIon="1.0">

<componentDefinition>
        <identification>
                <name value="componentPR"/>
                <type value="normal"/>
        </identificatioon>
        <relatives>
                <relative value="componentPR"/>
        </relatives>
        <struct>
                <reference value="this"/>
        </struct>
        <properties>
        </properties>
        <data type="none">
                <![CDATA[ ] ]>
        </data>
        <bogus>sad;1kjf;saldkjf;dslkfj;alsdkjfa;lskdjfa;lksj</bogus>
        <inteface type="text/html">
                <![CDATA[
                import Java;
                //try
                // @CCI
                        // Define Java API interface
                        // Specify the particular Method that contains the routines for the API calls
                        var jClass = Java_New ("Future4");
                        var API = jClass.getOCPDS(ccID);
                        //var  P = GetURL ("http://www.prenewswire.com/home.shtml);
                        var P = GetURL (http://199.230.26.69/home.shtml);
                        var table = Elem (P, "table");
                        var QA =  table  [3];
                        var QB = Elem (QA, "tr");
                        var myOutput  = "<IMG ALIGN=Middle
SRC=\http://www.prnewswire.com/images/logoanim3.gif\ BORDER=\ "0\" ALT=\ "PR
Newswire\ " VSPACE=7>" +
                        "<br<>table>" +
                        Markup (QB[0] +  Markup (QB[1])  + Markup (QB[2])  +
Markup (QB[3]) +
                        "</table>";
                        API.sCI(cID, "text/html", myOutput);
                //catch E
                //      on true do
                //              "Data  timeout / not available."
                //end
                ]]>
        </code>
        <activationCode language="JavaScript">
                <![CDATA[ ]]>
        </activationCode>
</componentDefinition>
```

Fig.62

```
<?xml version="1.0"?>

<componentDefinition>
        <indentification>
                <name value="componentGIF"/>
                <type value="normal"/>
                <descriiption value="This is a GIF File embedded in the component"/>
        </identification>
        </relatives>
        <struct>
                <reference value="this"/>
        </struct>
        <properties>
                <property name="none" value="0"/>
        </properties>
        <data type="none">
                <![CDATA []]
        </data>
        <interface
type="image/gif"><![CDATA[R01GODdhIAAgAPcAAP////X+/+z4/e32+uvx9efx9erv9eHv9exq7
9Pm6txi5cbd4dDb3c/a3sTS1b/R17fK0a/J0LbGya/FyqvAw6y+wp62u5mtspiqrpKor5OnryemroOh
o56qn4OdnoOXm4yOhX6aoHSTmWqKkX+PiWaHjXSCfG6EV4FpJPOiFOwkDukjANYiHNAo
ANIiAM8jAPwfE/8TE/8PGP8ME/kbDv8RAP8KD/8FC/8Mav8AAPQHAOkBAOEAANMfGscf
AMgWANsAANQCAMYAAK42KK41J7EnCbIiAKcrAKcgAJM5AIszAZAqAJMjALAeD74ZA
L0VALITAK4dDqYeALOAAKQOAIEeEpsAAJQAAI4OAIMAAHh0Z218bGBwam13Z2RjV29
hQmFdTmRVQH9gN39oImdWOGdXN21MJHliG2pEF148MVs0JFMwJGgnAGcmAFs5D1kpA
H4dEWgYhXkAAHIAAE4AAEQAADgAACwASCUAAB0AAAkAAAAAACQODyQJACMD
AA0TGAwSFR8PBhMCAAkAAAAAD9WZDZWZi9SZjpTXzJMWSBEVHBOP2VIOWNFO
WBIM3xZInVGL31AI15GMXhPGVU9MlI3MUg5NkQ7N1I1L1UyI0gpI3o1E3Y2FWIzG30rAF
44EUkjGkc7D1QkCXAaAE0VAFkNADA1NyozOSgxNSgpKiYsLjAiHyMdHyIYFigWEz4eDz0
TACIRDyMPDiYAAAwSFAwOEQw0DwAHCQ8AAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///yH5BAEAAAAAL
AAAAAAgACAABwjJAAEIHEiQYI6DOQoqXMgQocOEDCMafEhRYkSKGA9anJgx48aOIBE
2DE1SI8eM+FKqxAfy5MOU/2LK/JfS40CUM3PGZFnxJkV8OoPydOgyB1CZK1XOHGpS4E+k
TI0epfnQ5dSaP68S9Y1QK8IbDr02BfASaUexEJ2GNYtz51a1XdliRGtV71O3IrkevBp1L129e6G+
RJuWbFmoSZdWBRw4aM6+RRs7ptoTblahfccaRpk0s2bGJfNKDP32Y+iNCOmivohxtenPDAM
CADs=]]></interface>
        <code Language="JavaScript">
                <![CDATA[ ]]
        </code>
        <activationCode Language="JavaScript">
                <![CDATA[ ]]>
        </activationCode>
</componentDefinition>
```

Fig. 63

```
<?xml version="1.0">

<componentDefinition>
        <identification>
                <name value"componentFileListXML"/>
                <type value="normal"/>
        </identification>
        <relatives>
        </relatives>
        <struct>
                <reference value="this"/>
        </struct>
        <properties>
        </properties>
        <data type="none">
                <![CDATA[ ]]>
        </data>
        <interface tiype="text/xsl">
                <!CDATA[
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version-"1.0">
        <xsl:output method="html"/>
    <xsl:template match="/">
        <table>
                <xsl:for-each select="fulllfilename"/>
                <!--sorted within grouping-->
                <!--member distinctions—
                <tr>        <td>
                                <font color="#000000" size="1" face="Ariial, Helvetica">
                                <xsl:element name="a">
                                      <xsl:attribute name="href">
                                       <xsl:text>/servlet/Future4?cid=</xsl:text>
                                            <xsl:value-of select="fileneme"/>
                                       </xsl:attribute>
                                        <xsl:value-of select="filename"/>
                                </xsl:elemnt>
                                </font>
                                <br/>
                </td>        </tr>
        </xsl:for-each>
        </table>
    </xls:template>
</xsl:stylesheet>
         ]]>
```

Fig. 64A

```
</interface>
    <code language="JavaScript">
        <1[CDATA[
        // @ API
        var xmlString = API.getFileListingXML("","xml");
        API.setComponentData(cID, "text/xml",xmlString);
        ]]>
    </code>
    <activationCode language="JavaScript">
        <![CDATA[ ]]>
    </activationCode>
</componentDefinition>
```

Fig. 64B